

# MARKET BULLETIN

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## CHECKING IN ON SC'S 2019 HEMP HARVEST

STORY AND PHOTOS BY EVA MOORE

In mid-October, Ariel Ezekiel's hemp harvest was well underway. A massive warehouse in Aiken County was hung from floor to ceiling with stalks of hemp strung up with the use of a boom lift. Enormous fans would normally have been pulling air into the warehouse, but because it was humid outside that day, the fans were turned off.

"We need to get the moisture below 15 percent," Ezekiel said of the harvested hemp. "Processors prefer below 10 percent."

Moisture is one of many factors that can jeopardize a hemp crop. Ezekiel implemented strict controls to make sure her product was sufficiently dry before it was sealed in a bag and delivered to a processor. But mold caused by excess moisture was a problem for some South Carolina hemp farmers this year, says SCDA hemp program coordinator Vanessa Elsalah. Some who grew in plastic mulch struggled with mold in the soil, and other farmers struggled with mold after harvest.

2019 was the second year of South Carolina's Hemp Farming Program, and the first year that farmers were permitted to grow unlimited acreage. In 2018, the program had 20 farmers permitted to grow 20 acres apiece. In 2019, there were 114 hemp farmers and 211 responsible parties permitted to grow more than 3,700 acres of hemp.

The number of processors has skyrocketed as well, from zero last year to more than 40 permitted processors this year. Four seed companies have started up. A handful of in-state banks are now accepting hemp as a legitimate crop for the purposes of loans. By all measures, the state's hemp industry has taken off.

"We have grown tremendously in the last year," Elsalah says.

David DeWitt, a Clemson Extension agent and agronomist who serves as Clemson's statewide

coordinator for hemp, says the second year of hemp farming in South Carolina saw positive progress.

"We still ran into issues — weather, disease, insects — but overall I think knowledge was gained and yields were increased," he says.

The cost to grow hemp in South Carolina this year averaged \$10,000 to \$12,000 per acre, DeWitt estimates, though some farmers spent more than that — especially those with security concerns.



Ariel Ezekiel and her husband grew 40 acres of hemp this year. They harvested it in October, hanging it in a warehouse to dry.



The dried hemp was separated from its stalk and packaged in large bags for sale to a processor.

Both DeWitt and Elsalah say genetics improved in 2019, and continued improvement will be key to South Carolina's hemp industry as seed companies work toward creating the hemp varieties that grow best in South Carolina.

"It's going to take a few years of breeding programs for those genetics to become strong," Elsalah says.

DeWitt says he also saw higher cannabidiol levels this year. Cannabidiol, or CBD, is a natural compound in hemp. While there's hope that South Carolina hemp farmers will find markets for uses like fiber and culinary oils, most farmers in 2019 were growing hemp for CBD processing.

Reports are still rolling in, but it appears South Carolina hemp farmers had a range of outcomes as far as crop success and profit.

Ariel and her husband Mark Ezekiel grew 40 acres on their Aiken County farm, and they plan to grow more acreage next year. There's been some trial and error, Ezekiel said. She spent a lot of time testing her crop's THC and CBD levels, selectively harvesting plants, and talking to processors to figure out exactly what they wanted.

"Processors buy hemp biomass, but there are different levels of quality," she said, running her hand through a bag of dried hemp. "This is high quality. No stalk."

SCDA is also making plans for next year, including creating a new permit category for hemp handlers and implementing a seed-to-sale tracking system that will help farmers provide testing results to SCDA and offer transparency for consumers.

See page 3 for information about the 2020 Hemp Farming Program.

### COMMISSIONER'S CORNER

HUGH E. WEATHERS  
SOUTH CAROLINA  
COMMISSIONER OF  
AGRICULTURE



### CHRISTMAS AT HOME

**2019** is quickly drawing to a close. Hard to imagine the calendar will read 2020 in less than a month.

Like all of you, I'm looking forward to spending some time at home with my family this Christmas. It's that time that we also look forward to the New Year — a good time to reflect on the year behind us and make plans for the future.

It's been a year of ups and downs for South Carolina farmers. We had a drought, a hurricane, and a trade war — but we also saw some new opportunities. Last week I attended South Carolina Farm Bureau's annual meeting. I spoke about opportunities we've helped create for South Carolina agriculture, like ACRE, the hemp farming program, and economic development.

I also talked about some of the challenges for agriculture going forward. For example, South Carolina's population has grown nearly 10 percent since 2010, and doubled since 1970, and that fast-growing population is both a burden and an opportunity for South Carolina farmers. More folks to feed but also more neighbors who don't understand the challenges of production agriculture.

The South Carolina Department of Agriculture is working to nurture entrepreneurs who address agriculture problems in creative ways.

We're also working to recruit and develop new processors so farmers can diversify the crops they plant and animals they raise.

But before the New Year begins, it's time to focus on Christmas and let it be a chance to relax and recharge.

I love seeing my two grandchildren, Clara and Virginia, learning about the magic of the season. I'm already thinking ahead to Christmas when a third grandchild will be a part of our family.

Not only is Christmas a special time to celebrate, give thanks, and fellowship, it's also a great season to enjoy good food. I hope you'll seek out food grown by South Carolina farmers for your holiday table — and check out the South Carolina Specialty Food Association members on pages 4 and 5 of this issue.

At my house, we end up spending a lot of time around the dinner table beyond just eating — sharing stories of Christmases past, appreciating the time we can spend with loved ones during the holidays, celebrating the great moments of the last year, and taking time to remember those less fortunate than us.

From Blanche, me, and the South Carolina Department of Agriculture, have a Merry Christmas and happy holidays!

*Hugh E. Weathers*





SALES / AUCTIONS

**Duke’s Auction**  
December 14 • 8:30 am  
Farm & construction equipment, tractors, dozers, trailers, vehicles, implements, etc.  
5526 Savannah Hwy, North  
Contact: Donald Dukes  
803-533-9333  
dukesauctiongroup.com

**Tessier Farm Equipment Auction**  
December 14 • 10 am  
Farm machinery, classic tractors to modern hay equipment. View photos on the website.  
648 Olin Smith Road, Donalds  
Contact: Walnut Grove Auction & Realty  
864-576-9244 • sales@walnutgroveauction.com  
walnutgroveauction.com

**Small Animal Sale**  
December 14 & 28 • 10 am  
Poultry, animal related, and farm equipment  
140 Buffalo Creek Ranch Road, Buffalo  
Contact: Judy Cathcart  
864-427-9202 • carlcathcart@bellsouth.net

**17<sup>th</sup> Annual Charolais Source Bull Sale**  
December 14 • 12 pm  
(27) Charolais Bulls, (5) Reg. Black Hereford Bulls, (4) open Heifers Charolais, (8) Charolais x Red Angus, (14) Bred Heifers to Red Angus & Charolais Bull  
Chester Livestock Exchange  
2531 Lancaster Hwy, Chester  
Contact: Tommy Wilks  
843-307-0323 • cfrsupply@aol.com

**Springfield Stockyard**  
December 21 • 10:30 am  
Farm equipment, hogs, horses, cows, sheep, goats, and more.  
7550 Festival Trail Road, Springfield  
Contact: Nathan Croft  
803-258-3512 • nathan.croft@aol.com

**Claxton’s Auction**  
December 21 • 11 am – 5 pm  
Special Sale: January 19  
Cows, hogs, equine, goats, sheep, camelots, ratites, poultry, small animals.  
18627 Low Country Hwy, Ruffin  
Contact: William Claxton  
843-909-4285 • wlcjr@yahoo.com

SCDA State Farmers Markets

SOUTH CAROLINA  
STATE FARMERS MARKET

3483 Charleston Highway  
West Columbia, SC 29172  
803-737-4664

GREENVILLE  
STATE FARMERS MARKET

1354 Rutherford Road  
Greenville, SC 29609  
864-244-4023

PEE DEE  
STATE FARMERS MARKET

2513 W. Lucas Street  
Florence, SC 29501  
843-665-5154

VISIT  
AGRICULTURE.SC.GOV

Click on the State Farmers Markets  
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each location

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Consumer Protection  
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Market News  
803-737-4621

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803-737-4597

Market News Recording  
803-737-5900

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803-737-4497

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803-253-4052

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Ads are published free of charge and in good faith. The Market Bulletin reserves the right to edit and verify ads but assumes no responsibility for their content.

Ads cannot be accepted from agents, dealers, or commercial businesses, including real estate. Sealed bids, legal notices, or consignment sales are not accepted.

SUBMITTING ADS

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Online: Go to agriculture.sc.gov/market-bulletin. Select “Submit Market Bulletin Ad” and complete the form. If you include your email address, you will receive an automated reminder for a renewal.

Mail: SC Market Bulletin, PO Box 11280, Columbia, SC 29211. You must use 8.5 x 11 inch paper.

Fax: 803-734-0659

The deadline for submitting ads and notices is noon on Tuesday of the week before the publication date.

NEXT AD DEADLINE

DECEMBER 17 • 12:00 PM





# SCDA SETS OUT TIMELINE FOR 2020 HEMP PERMITTING

BY SC DEPARTMENT OF AGRICULTURE

After the US Department of Agriculture released its 161-page interim final rule in October setting out a national regulatory framework for hemp, we understand many hemp farmers and other stakeholders have questions about the next steps for South Carolina’s Hemp Farming Program.

In order to comply with state law, The South Carolina Department of Agriculture submitted a “placeholder” state hemp plan to USDA in August 2019 because the interim final rule had not yet been released. Now, we are working to gather comments on the rule, as well as to write a new state plan.

We intend to open applications for the 2020 growing season on February 1, 2020. However, in an abundance of caution, we plan to extend current permits through May 1, 2020. A fuller timeline is available on the SCDA website.

For the 2020 growing season, we will no longer allow permitted farmers to let responsible parties grow hemp under their license: Anyone growing hemp in South Carolina will have to be a permitted hemp farmer. Current responsible parties who intend to grow hemp next year should make plans to apply for their own permit, or to destroy any hemp in their possession in accordance with state law when the permit under which they are licensed expires.

We invite hemp farmers and other stakeholders to share their concerns and questions about the interim final rule with SCDA, or to submit comments to USDA themselves. We have posted a brief summary of the interim rule online at [agriculture.sc.gov/hemp](http://agriculture.sc.gov/hemp). Comments on the rule can be emailed to [hempstaff@scda.sc.gov](mailto:hempstaff@scda.sc.gov). Please include a name, contact information, and a Hemp Farming License number, if applicable.



HUGH E. WEATHERS, COMMISSIONER

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## UPCOMING EVENTS

### Christmas Farm Day

December 14 • 10 am – 2 pm

Come out for our Christmas Farm Day. Shop for those Holiday Dinner Meals. Shop for the most unique gifts for family and friends. Bring your camera and the kids. Carolina Cajun Meats Food Truck will be here for lunch!

#### Thames Farm

3510 Catawba River Road, Fort Lawn

803-323-7789

[thamesfarm.com](http://thamesfarm.com)



### Christmas Saturdays at the Market

December 14 & 21

The Greenville State Farmers Market will come alive with the sounds and smells of Christmas. Beautiful trees, wreaths, greenery and special gift items will be available along with regular seasonal products.

#### Greenville State Farmers Market

1354 Rutherford Road, Greenville

864-244-4023 • [asummerall@scda.sc.gov](mailto:asummerall@scda.sc.gov)



### Wreath Wonderland

December 14 & 19 • 10 am – 2 pm

A stunning holiday wreath isn’t that hard to make – just gather the right supplies, a few seasonal embellishments and a healthy dose of holiday spirit. Wreath Wonderland will guide attendees through making an 18-inch grand-crafted greenery wreath with materials harvested from the garden. Each attendee will take home their wreath. These wreaths will look great hung on the front door or over the mantle! All wreath materials will be provided, but you can bring decorative items to add if you wish. Please also bring pruners and gloves. The cost is \$30 per person. Lunch is included. If you have any special dietary needs, please contact Rebecca Turk. Call to pay by phone.

#### Moore Farms Botanical Garden

100 New Zion Road, Lake City

Contact: Rebecca Turk

843-210-7582 • [icollins@moorefarmsbg.org](mailto:icollins@moorefarmsbg.org)



### La Belle Amie Vineyard December Events

12 – 5 pm

December 14 – An Afternoon of Holiday Tunes (\$7)

December 21 – Yuletide Music & Bonfire (\$7)

December 28 – New Year Bonfire (\$7)

Afternoon music (weather permitting) on every Wednesday, Thursday, and Friday. There is no admission fee for those days. Admission is reduced on Saturdays by \$2 if you bring 2 canned/dry good food items for the area food bank. Inclement weather may cause a last-minute postponement or cancellation, so check the website or call prior to coming out for an event.

#### La Belle Amie Vineyard

1120 Saint Joseph Road, Little River

843-399-9463 (WINE)

[labelleamie.com](http://labelleamie.com)



### Christmas at the Barn!

December 15 • 2 – 5 pm

Since 2003, horse lovers of all ages have created special memories at "Christmas at the Barn", an annual fundraiser for Happy Hooves, a nonprofit Therapeutic Equestrian Center that helps special needs individuals and at-risk youth benefit from equine related activities. Included in the \$10 per person admission fee: "Reindeer Rides" for children, (which are our sweet horses dressed up with red noses, antlers, and glitter!) In the heated North Pole Room, there are arts and crafts to make, hot cocoa and cookies to enjoy, and of course: SANTA, who is surrounded by piles of presents! In the barn area, there is a live interactive Nativity scene, Christmas Carolers, Nativity arts and crafts, photo opportunities with an Eden Farms "Reindeer". There will be "Peeple Chase": a chance for children to grab a stick horse and navigate through a series of jumps and see how real horses feel in Steeplechases! There will also be a gift shop, bake sale, and lunch for sale.

#### Eden Farms

4700 Dacusville Highway, Marietta

864-898-0043

[happyhoovessc.com/upcoming-events.html](http://happyhoovessc.com/upcoming-events.html)

[edenfarms.net](http://edenfarms.net)



### L.W. Paul Living History Farm

December 21

9 am – Junior Farmers • 1 pm – Traditional Music Experience life on the “one horse farm” in Horry County from 1900–1955.

Hwy 701 North & Harris Short Cut Road, Conway

843-365-3596 • [hcgmuseum@horrycounty.org](mailto:hcgmuseum@horrycounty.org)

[horrycountymuseum.org](http://horrycountymuseum.org)



### Holiday Under the Stars

December 27 • 7 pm – 12 am

Dance and Reception! Mark your calendar, don't miss this event. \$30/person

#### Greenfield Farms

4585 Spencer Road, Rembert



### Beginner's Beekeeping Course

January 9 • 6 – 8:30 pm

Consists of six classes held January 9, 16, 23, & 30 and February 13 & 20. Instruction by experience, certified beekeepers. "Gloves-on" experience in an apiary will be available at a later date. Top-rated, reference-quality textbook, guidance in ordering equipment and live bees, and one year membership in the Wateree Beekeepers Association and the SC Beekeepers Association. Cost: \$50.

#### 634 W. Dekalb Street, Camden

Contact: Wateree Beekeepers Association

[wbabeekeepers@gmail.com](mailto:wabeekeepers@gmail.com)

[watereebeekeepers.com](http://watereebeekeepers.com)

### Grinding of the Greens

January 11 • 8:30 am

Dispose of your Christmas tree in an environmentally friendly way by dropping it off at the market between December 26 and January 9. Grinding will begin at 8:30 am with mulch available until it runs out.

#### South Carolina State Farmers Market

3483 Charleston Highway, West Columbia

Contact: Brad Boozer

803-737-4664 • [bboozer@scda.sc.gov](mailto:bboozer@scda.sc.gov)



# SOUTH CAROLINA SPECIALTY FOOD ASSOCIATION MEMBERS

Looking for gifts this holiday season? Check out what the South Carolina Specialty Food Association’s members have to offer.

The South Carolina Specialty Food Association is a nonprofit organization that promotes specialty food products and serves its members through education, networking and other activities. Association members must also be members of the Certified South Carolina program, SCDA’s branding program for South Carolina produce and products.

From hot sauces to heirloom grains, members sell products that capture the diversity of South Carolina’s regions and traditions.

Visit [shoplocalsc.org](http://shoplocalsc.org) to buy products from these vendors or to find out more about the association.

## BAKED GOODS

### ABBOTT FARMS BAKERY

Fruit breads, ice creams  
864-463-4653 • [abbottfarmsonline.com](http://abbottfarmsonline.com)

### SUGAH CAKES

Cake mix, custom cookies, cupcakes  
864-585-3228 • [sugahcakes.com](http://sugahcakes.com)

### THE SWEETERY

Baked goods including Wine Sticks, Ugly Cakes, cakes, brownies, café lunch  
864-224-8394 • [thesweetery.com](http://thesweetery.com)

### BLUE FLOUR BAKERY

Cookies, brownies, bars  
803-407-3603 • [blueflour.com](http://blueflour.com)

### CALLIE'S CHARLESTON BISCUITS, LLC

Biscuits, pimento cheese  
843-577-1198 • [calliesbiscuits.com](http://calliesbiscuits.com)

### GREY GHOST BAKERY

Gourmet cookies  
803-238-1123 • [greyghostbakery.com](http://greyghostbakery.com)

### OLDE COLONY BAKERY

Charleston benne wafers, benne cheese zingers, pecan pinchies, Carolina key lime cookies, cream bread, cinnamon raisin bread  
843-216-3232 • [oldecolonybakery.com](http://oldecolonybakery.com)

### PIES CAKES AND S'MORE

Co-owned by Executive Pastry Chef Judy “Pop” Papadimitriou, Pies, Cakes, and S'More specializes in custom pies, cakes, cookies, brownies and other baked goods.  
843-324-9206 • [piescakessmore.com](http://piescakessmore.com)



## BBQ / RUBS

### BEZZIE'S HOMESTYLE FOODS

Bezzie's homestyle BBQ sauce  
803-707-5432 • [bezzieshomestylefoods.com](http://bezzieshomestylefoods.com)

### BLUE WREN SPICE & CONDIMENT, LLC

Red Head Rub & all purpose seasoning  
864-484-3949 • [redheadrub.com](http://redheadrub.com)

### FREEMAN BBQ SAUCE COMPANY, LLC

BBQ sauce  
803-300-1008 • [freemansbbqsauce.com](http://freemansbbqsauce.com)

### GOURMET WAREHOUSE

Marinades, spice rubs, BBQ sauces, marinade injectors  
877-496-2746 • [gourmetwarehouse.net](http://gourmetwarehouse.net)

### KRAZY K'S LLC

Original, Kurly Tails, Red Barbeque sauce, salsa  
843-991-0740 • [krazyksbbqsauce.com](http://krazyksbbqsauce.com)

### SMOKIN' COALS/BUZZ'S BUTT DUST

BBQ sauce, dry rubs  
803-466-6831 • [smokincoalsauce.com](http://smokincoalsauce.com)

### UNCLE ALBERT'S BBQ SAUCE

Barbecue sauce  
843-307-5550

### WILLIE'S RUBBINS

Rubs, sauces, pork rinds, dips, cracker seasoning, bloody mary mix, pickled vegetables  
803-795-5850 • [williesrubbins.com](http://williesrubbins.com)

## BEVERAGES

### ACE BASIN COCKTAIL COMPANY

Langdon's Original Tonic  
843-779-2239 • [acebasincocktailco.com](http://acebasincocktailco.com)

### CHARLESTON TEA PLANTATION

SC Grown tea  
843-559-0383 ext 4207 • [charlestonteaplantation.com](http://charlestonteaplantation.com)

### CHATTERBOX COLD BREW COFFEE

Cold brew coffee, tea products  
843-729-9506 • [chatterboxcoldbrew.com](http://chatterboxcoldbrew.com)

### COASTAL COFFEE ROASTERS

Coffee roasting kitchen, co-op kitchen, certified roadside market  
843-376-4559 • [coastalcoffee.roasters.com](http://coastalcoffee.roasters.com)

### DEEP WATER VINEYARD

Muscadine wines  
843-559-6867 • [charlestonwine.com](http://charlestonwine.com)

### HYMAN VINEYARDS

Wine, juice, jams, jellies, produce  
843-397-2100 • [hymanvineyards.com](http://hymanvineyards.com)

### IRON BREW COFFEE

Gourmet roasts, flavored coffees  
803-779-0780 • [ironbrewcoffee.com](http://ironbrewcoffee.com)

### LEOPARD FOREST COFFEE COMPANY

Freshly roasted specialty coffee  
864-836-8332 • [leopardforestcoffee.com](http://leopardforestcoffee.com)

### OLIVER PLUFF, LLC

Early American tea, southern iced tea, colonial coffee, old English wassail  
843-779-6622 • [oliverpluff.com](http://oliverpluff.com)

### SEASIDE GROWN

Bloody Mary mix from St. Helena tomatoes  
843-838-1810 • [seasidegrown.com](http://seasidegrown.com)

### SUGAR TIT MOONSHINE DISTILLERY

Moonshine, mixers  
864-249-6483 • [sugartitmoonshine.com](http://sugartitmoonshine.com)

### WINDY HILL ORCHARD/EVERYTHING APPLES INC.

Apples, fruit butters, fresh cider, hard cider, wassail  
803-684-0690 • [windyhillorchard.com](http://windyhillorchard.com)

## CONDIMENTS / DRESSING / SAUCES

### BLUE MOON SPECIALTY FOODS

Sauces, seasonings, pimento cheeses, dips, spreads, dressings, quiche, pies, soups  
864-266-2808 • [bluemoonsc.com](http://bluemoonsc.com)

### BOWENS ISLAND RESTAURANT

Cocktail sauce  
843-795-2757 • [bowenisland.com](http://bowenisland.com)

### BURNT AND SALTY, LLC

Launched in 2015, Burnt & Salty is a Charleston-based condiment company run by Cris Miller and Edmund's Oast executive chef Bob Cook. The company's flagship product, Korean Mustard, is made with sesame oil, soy sauce, fermented pepper paste, Korean pepper powder, and fish sauce.  
843-224-1259 • [burntandsalty.com](http://burntandsalty.com)



### FOOD FOR THE SOUTHERN SOUL

Dry rubs, sauces, stone ground grits  
800-538-0003 • [foodforthesouthernsoul.com](http://foodforthesouthernsoul.com)

### LILLIE'S OF CHARLESTON

Hot sauces, mustard BBQ sauces, spice mixes  
843-402-9787 • [lilliesofcharleston.com](http://lilliesofcharleston.com)

### LOWCOUNTRY OLIVE OIL, LLC

Condiments, dressings  
843-297-0462 • [lowcountryoliveoil.com](http://lowcountryoliveoil.com)

### MOD SQUAD MARTHA

Marinades, rubs, dressings  
615-476-3696 • [modsquadmartha.com](http://modsquadmartha.com)

### MOTHER SHUCKER'S ORIGINAL COCKTAIL SAUCE

Cocktail sauce  
803-261-3802 • [mothershuckersauce.com](http://mothershuckersauce.com)

### OLD PLANTATION SYRUP

Old fashioned cane syrup, pure cane molasses, BBQ sauce  
843-389-3383

### OLINDA OLIVE OIL

Domestic extra virgin olive oil, natural brine olives  
843-906-1749 • [olindacharlestonblend.com](http://olindacharlestonblend.com)

### PALMETTO PEPPER POTIONS

Handcrafted SC hot sauces  
803-782-8020 • [pepperpotions.com](http://pepperpotions.com)

### PERONE'S KITCHEN, LLC

Vince Perone's gourmet Italian marinara sauce, spice blends  
864-607-5246

### PORZIO'S, LLC

Handcrafted pizza, pasta sauce  
912-713-8833 • [porzios.com](http://porzios.com)

### RED BONE ALLEY FOODS, LLC

Sauces, marinades, condiments  
843-673-9584 • [redbonefoods.com](http://redbonefoods.com)

### TAVI, LLC

All purpose condiment  
803-732-5527 • [tavis4ini.com](http://tavis4ini.com)

### THE DELI KORNER

Dill salad dressing  
864-583-9518 • [delikorner.com](http://delikorner.com)

### VILLA TRONCO SALAD DRESSING

Italian salad dressing  
803-256-7677 • [villatronco.com](http://villatronco.com)

### WARRANT MAN PEPPER CO. LLC

Hot sauces produced with the Carolina Reaper Pepper as the base ingredient  
843-580-8993 • [warrantmanpepperco.com](http://warrantmanpepperco.com)





CONVENIENCE / SNACKS

**CAROLINA KERNELS**  
Gourmet popcorn, mini-donuts, concession food  
803-851-6195 • carolinakernels.com

**FAITHFUL FOODS, INC.**  
SC Certified Southern gourmet mixes, rice, soups, dips, salsas, fudge, pralines, private labeling, school and nonprofit fundraising products, gift baskets  
803-957-3602 • faithfulfoods.com

**ELJAY FOODS, LLC**  
Traditional pretzels, pretzel bites, buns, twisted sticks  
843-314-3212 • eljaypretzels.com

**CHARLESTON SPECIALTY FOODS**  
Cookies, grits, rice, beans  
843-744-8991 • charlestonspecialtyfoods.com

**CHARLESTOWNE KETTLE CORN, LLC**  
Boiled and fried peanuts, kettle corn  
843-814-8799 • mikespeanuts.net

**LOWCOUNTRY KETTLE POTATO CHIPS LLC**  
Handmade kettle cooked potato chips  
843-729-6509 • lowcountrykettle.com

**PALMETTO KETTLE CORN**  
Small batch kettle corn  
843-415-5379 • palmettokettlecorn.com

**SWEET JESUS KETTLE KORN**  
Sweet and salty popcorn  
304-395-9722

**TRIO SPECIALTY FOODS**  
McLib's Southern dumplings  
864-646-3033

DAIRY PRODUCTS

**CHARLESTON ARTISAN CHEESEHOUSE**  
Artisan cheeses, cream cheeses, gift baskets  
843-608-9118 • charlestoncheesehouse.com

**CLEMSON UNIVERSITY**  
Clemson blue cheese and dressing, Clemson's Best gourmet ice cream  
803-275-6141 • clemson.edu/bluecheese

**EPWORTH ICE CREAM COMPANY**  
Specialty ice cream  
803-403-3388 • epworthicecream.org

**HICKORY HILL MILK, LLC**  
Whole, chocolate, buttermilk  
803-275-6141 • hickoryhillmilk.com

**INMAN SPECIALTY FOODS, LLC**  
BBQ sauces, wing sauce, dry rub, pecan breading mix  
864-351-8638 • inmanspecialtyfoods.com

**LOWCOUNTRY CREAMERY**  
Whole milk, whole chocolate milk, non-fat cultured buttermilk, greek yogurts, crème fraiche  
803-924-2201 • lowcountrycreamery.com

**NELLIE T'S**  
Nellie T's gourmet pimento cheeses, nut butters, pralines, Ted's Tea  
864-640-9133 • nelliets.com

**SPLIT CREEK FARM, LLC**  
Artisan goat cheeses, raw goats milk, yogurt, fudge  
864-287-3921 • splitcreek.com

JAMS / JELLIES / FRUITS / VEGETABLES

**ADAMS APPLE EATABLES**  
Apple butter, apple pie jam  
803-446-7286 • adamsappleeatables.com

**BEE WELL HONEY FARM**  
Honey, natural beauty products, essential oils, bee supplies, organic beef, dairy, eggs, gifts  
864-898-5122 / 864-397-5300 • beewellhoneyfarm.com

**BELUE FARMS**  
Grass-fed beef, strawberries, peaches, other vegetables  
864-578-0446 • beluefarms.com

**BUSY BEE HONEY**  
Local raw wildflower honey  
803-957-3295

**CANEBRAKE FARM**  
Salsa, relish, pickled veggies, jams, jellies, preserves, fruit butters, fresh produce  
803-275-7237

**CAPE ROMAIN FOOD SPECIALTIES LLC**  
Jerusalem artichoke relish  
843-284-5222 • caperomainfoods.com

**KENCHI FERMENTS, LLC**  
Artisanal, fermented foods from kimchi to pickled okra  
917-974-6128 • kenchiferments.com

**MCLEOD FARMS**  
Peaches, strawberries, blackberries, grapes, pumpkins  
843-335-8335 • macspride.com

**SALLIE'S GREATEST**  
Herbal fruit jams, simple syrups  
803-823-9075 • salliesgreatest.com

**THE CAROLINA HONEY BEE COMPANY**  
Honey and hive products  
864-610-2337 • carolinahoneybeecompany.com

**THE PEACH STAND**  
Strawberries, peaches, blackberries, vegetables, SC products  
803-547-7563 • peachstand.com

NUTS / FLOUR / RICE

**ACE BASIN MILLING**  
Grits, cornmeal, shrimp and grits mix, fish breader, chicken breader, she crab soup mix  
843-835-5050

**ADLUH/ALLEN BROTHERS MILLING COMPANY**  
Flour, cornmeal, breaders, bakery mixes, stone ground grits  
803-779-2460 • adluh.com

**CAROLINA PLANTATION RICE**  
White and brown aromatic rice, grits, cow peas, Charleston or Carolina Gold rice  
843-393-1812 • carolinaplantationrice.com

**CONGAREE MILLING COMPANY**  
Whole grain, fresh milled maize products  
803-269-3833 • thecongarreamillingcompany.com

**GEECHIE BOY MILL**  
Heirloom varieties of grits and cornmeal, popcorn, farro, Sea Island red peas, benne  
843-209-5220 • geechieboymill.com

**GILLESPIE'S PEANUTS**  
Assorted roasted flavored peanuts  
843-383-4707 • rogersbrosfarm.com

**GOLDEN KERNEL PECAN COMPANY**  
Pecan processors  
803-823-2311 • goldenkernel.com

**SAVOR THE FLAVOR**  
Gourmet rice, grits mixes  
803-795-8810 • savorthetheflavorsc.com

PROTEIN / MEAT

**PJ FARM**  
Grass fed and finished Angus beef  
803-603-8064

**THE CRAB CAKE LADY COMPANY**  
Seafood products, sauces, dips, soups  
843-651-5707 • thecrabcakelady.com

SPICES / SEASONINGS

**CHARLESTON SPICE COMPANY**  
Organic hand blended herb and spice blends  
843-830-1004 • charlestonspice.com

**CHEF BELINDA**  
Chef Belinda Spices, artisan spice blends  
803-552-6450 • chefbelinda.com

**IVIVA LIFE, LLC**  
Edible fine and coarse Himalayan salt  
864-663-1845 • ivivalife.com

**LEE'S SOUTHERN SEASONINGS**  
Gourmet seasonings, sauces, salsas  
803-645-4345 • leesrubs.com

**SEA ISLAND COASTAL PRODUCTS**  
Seasoning salt  
803-233-4857

**WOODHAM ENTERPRISES, LLC**  
Seasonings  
803-465-4812

SWEETS / CANDY

**AGAPE CHOCOLATE COMPANY, LLC**  
A family-run business based in Graniteville, Agape Chocolates makes a variety of artisan chocolate bars and donates to backpack programs fighting childhood hunger in the region.  
803-716-8353 • agapechocolates.com



**CHOCOLATES AND SWEETS**  
Confections, hand-made chocolates, artisan truffles  
843-540-2565 • chocolatesandsweets.com

**ISLAND FUDGE SHOPPE**  
Fudge, chocolate candies, South Carolina pralines, novelty chocolates  
843-842-4280 • islandfudge.com

**K & K GOURMET SWEETS**  
Alfajores, chacotejas, pecan bites, coconut macaroons  
803-608-6778 • kkgourmetsweets.com

**LOWCOUNTRY BRITTLES, LLC**  
Nut brittle  
843-628-9367

**NANA'S CAROLINA PRALINE**  
Praline candy  
864-281-9944

**PECAN YUMMIES**  
Pecan yummys  
888-269-9853 • pecanyummies.com

**SODA CITY GOURMET CANDY, LLC**  
Peanut brittle, pecan brittle, pecan toffee, coffee toffee, Himalayan salt toffee, sunflower seed brittle, mini pecan toffee pound cakes, cookies  
803-622-5969 • sodacitycandy.com

**STATE STREET SNACKS**  
Specialty caramel popcorn  
803-957-6801 • statestreetsnacks.com

**THE NUT HOUSE AND COUNTRY MARKET**  
Pecan products, Yon Family Farms beef, Hickory Hill Milk, Clemson Blue Cheese, specialty food items  
803-685-5335 • nuthouseandcountrymarket.com



AQUACULTURE

CATTLE

**STERILE GRASS CARP**  
12-14", \$14 each  
Michael Price  
Lexington  
803-356-3403

**SHAD**  
for pond stocking, \$1-5;  
Bream, 35¢-\$3; Bass, \$1.50-3¢; Crappie, \$1-3; Catfish, 50¢-\$2 each  
Cannon Taylor  
Newberry  
803-276-0853

**STERILE GRASS CARP**  
8-11", \$12/ea; Chan Catfish, 3-5", \$50/100; Bluegill, Shellcracker, Redbreast, 1-3", \$50/100  
Clay Chappelle  
Richland  
803-776-4923

**REG & COM ANG HEIFERS**  
9-15 m/o, top b'lines, \$850+; reg Ang bulls, Connealy & SAV sired, \$1500+; more  
Kevin Renwick  
Abbeville  
803-924-0535

**REG RED ANG BULLS**  
2 y/o, UTD on all vac, BSE passed, home raised, ready to work, \$2500 each  
Todd Smith  
Laurens  
864-923-5670

**PB BLK ANG BULLS**  
raised on grass forage, 2 y/o, ready for work, \$2000  
Mike Johnson  
Newberry  
864-923-0978

**REG ANG BULLS**  
1-2 y/o, BSE tested, by Hoover Dam, AI bred cows & heifers from top select sires, \$1500+  
Bobby Baker  
Lancaster  
803-804-2230

**REG RED ANG BULLS**  
top AI b'lines, semen tested, gentle, \$2500+  
Danny Winchester  
Pickens  
864-637-8592

**GELB PB REG BLK BULL**  
B-8/20/18, AI sired by Carolina Leverage, quiet dispo, good EPDs, \$1600  
Ricky Baumgarner  
Oconee  
864-710-6832

**2 COW-CALF PRS**  
both calves are heifers, \$1000/pr  
Zachary Davick  
Lexington  
803-760-0284

**5 OPEN BLK BALDY HEFRS**  
9-12 m/o, weaned, all shots UTD & wormed, \$800+, if all taken, \$800 each  
Gene McCarthy  
Edgefield  
803-278-2274

**REG BLK ANG BULLS**  
& heifers, 7-8 m/o, Blk granite b'line, \$900; 4 y/o Yon Blk Granite bull, \$3000  
Ed Haniff  
Aiken  
803-645-3642

**REG ANG BULLS**  
ready for service, AI sired by Double Vision, Fortress & Prophet, good EPD's, \$1500-2000  
Rick Outen  
Chesterfield  
843-337-1355

**REG LIMO CALVES**  
B-1/19 - 4/19, bull/hefrs, blk, red, FB sire, PB dams, \$800+, dpndg of age & size, del for fee  
James Langston  
Pickens  
864-859-6794

**5 HEIFERS**  
red Ang cross, 18-20 m/o, \$1000  
James Rushton  
Saluda  
803-275-2778

**TOP QUALITY ANG BULL**  
18132420 Denver son, easy-going, correct & sound, view his daughters, \$2250  
Al Harman  
Lexington  
803-210-5529

**BLK DEXTER HEFR**  
1 y/o, PB, polled, un-reg, \$1000; Jersey/Ang cow/calf pr, \$1200  
Brian Jolly  
Lexington  
803-580-7564

**FB RED POLL BULLS**  
& heifers, \$1500-2000  
Janice Wyatt  
Marlboro  
803-651-3086

**BLK ANG BULL**  
\$700; Blk Ang heifer, \$650; both FB & 7 m/o  
L Gunter  
Lexington  
803-532-7394

**5 Y/O REG BLK ANG**  
w/2<sup>nd</sup> bull calf by side, \$1500  
Mitchell Davis  
Chesterfield  
843-680-2090

**3 COW-CALF PRS**  
calves are off reg blk Bfmstr bull, \$1000/pr  
James Davis  
Chesterfield  
843-623-2023

**18 M/O REG ANG BULL**  
dbl bred CE, fescue resistant, gentle, grass dev, proven bulls from diff b'lines, \$1750  
Eddie Martin  
Anderson  
864-296-0454

**BBU BFMSTR HEIFERS**  
exc b'lines & conformation, open & bred, \$1000-3500  
James Dyches  
York  
803-230-4952

**SG POLLED BULLS**  
drk red, \$1200 firm; heifers, \$750 firm  
Leon Shealy  
Lexington  
803-622-1314

**BLK BALDY & BLK ANG COWS**  
hvy bred to reg Blk Ang bull, \$1000 each; cow & calf prs, \$1200  
Terry Gibert  
Greenwood  
864-993-4212

**REG BLK ANG BULLS**  
15-24 m/o, low BW, exc ft & muscle, fertility tested, complete EPDs & perf info, \$2500+  
Dixon Shealy  
Newberry  
803-629-1174

**RED BFMSTR BULL**  
3 y/o in '20, b'line cottage farm & white oak, papers/ reg, \$1800  
William Hucks  
Chester  
803-385-9135

**REG BLK ANG HEFR**  
bred to Hoover Dam on 2/14, Sire AAR TEN X 7008  
SA B-1/17/17, \$2800  
Robert Blanton  
Cherokee  
864-838-8765

**PB HRFRD BULLS & HEFRS POLLED**  
"Home Towne" b'lines, bulls, \$1200; 17 m/o, \$750; more  
John Gossett  
Spartanburg  
803-222-7786

**2 REG BLK ANG BULLS**  
exc b'line, B-12/17, \$1450; B-4/19, \$1150  
Tim Biggerstaff  
Dorchester  
843-729-4000

**RED POLL STEERS**  
1000#, pasture raised, heritage breed, exc beef, ready to go, \$1200 each  
Mike Buck  
Saluda  
864-445-7399

**REG BLK ANG BULLS**  
20 m/o, service ready, calving ease, del avail, \$1800  
Hugh Knight  
Orangeburg  
803-539-4674

**BULLS & HEIFERS**  
Golden certified Fi Braford & Charbra, \$900  
Sammy Callaham  
Anderson  
864-304-2038

**DEXTER HEIFERS**  
both reg & red, 1 polled, 1 horned, B-5/2 & 6/25, \$800 ea  
Mib Scoggins  
Marlboro  
843-601-1549

**ANG & BRANG CROSS**  
2 bred cows & 1 bull, 2½ y/o, \$3500 for all  
Johnny Gardner  
York  
803-370-1999

**JERSEY MILK COW**  
10 y/o, open, milking, will take calves, \$800  
Benny Goff  
Kershaw  
803-269-8189

**15 M/O PB BULLS**  
blk Brangus & Ultra blk, calving ease, \$1500+  
Daniel Chassereau  
Bamberg  
803-267-4880

**JERSEY BULL CALVES**  
4-7 days colostrum fed, \$20 ea  
Allen Riddle  
Orangeburg  
803-682-4070

**5 COMM BLK ANG HEFRS**  
sired by reg bull, 12-15 m/o, \$800 each  
Randall Jones  
Newberry  
803-768-2102

**REG BLK ANG**  
bred cows & open heifers, low input, eff, moderate sized, exc ft, udders, muscle, \$2500+  
Walter Shealy  
Newberry  
803-924-1000

**REG BFMSTR BULLS**  
24 & 32 m/o, \$2500  
Corey Gardner  
Lancaster  
803-320-0982

**REG BLK GELB BULLS**  
calving ease, current BSE, Brendy Hill, \$2500+  
Virgil Wall  
Saluda  
864-942-2380

**2 BRANG BULLS**  
yrlngs, \$1200 each  
Don Bowman  
Abbeville  
864-617-7253

**BLK ANG BULLS**  
yrlgs & 2 y/o, exc b'lines, good calving ease, \$1500+  
Wesley Miller  
Lexington  
803-917-1793

**2 REG BFMSTR BULLS**  
19 m/o, \$1300; 12 m/o PB Bfmstr, \$1000; 2 PB Bfmstr bulls, 30 m/o, \$1500  
John Steele  
Lancaster  
803-283-7720

FARM EQUIPMENT

ADS MAY NOT BE SUBMITTED BY COMMERCIAL DEALERS.

**NH SQ BALER 320**  
needs repairs, \$600; hay tether, 2 baskets, \$1100  
Christopher Johnson  
Aiken  
803-640-2734

**CASE IH 7150 MFWD**  
cold air, runs good, 2 new rear tires & duals, \$29,500 obo  
Danny Hege  
Barnwell  
803-793-4187

**8'x20' BP TRL**  
metal, flat bed, 5 ton cap, \$3500; 6' HD skid steer, open bottom, low flow 2-cyl, grapple bucket, \$2500  
D L Dimery  
Lexington  
803-796-2995

**SOD NET LAYER**  
factory made, 17-20', 6"-8" tube, GC, \$3000  
Craig Henry  
Beaufort  
843-521-3826

**3 PT 6' LINEBACK DISC**  
GC, all disc are good, \$400  
Ronnie James  
Chesterfield  
843-601-2950

**HD DRAG HARROW**  
extra parts, 3 section, \$125; 3ph fert spreader, \$200  
Harold Crocker  
Cherokee  
868-838-5046

**'78 FA CUB**  
EC, low hrs, shed kept, w/1ph, cults, disc harrow, mold board, turn plow, disc turn plow, \$4250  
Robert Yonce  
Aiken  
803-685-7240

**20 DISK 6' HARROW**  
made by Hawk Line, grease able bearings, GC, \$1000  
Douglas Todd  
Anderson  
864-617-4901

**NH 634 RND BALER**  
2<sup>nd</sup> owner, \$7000  
Melvin Barr  
Pickens  
864-360-5176

**PORTABLE GRAIN AUGER**  
6"x60', elec motor, EC, \$3500  
Parker Tuten  
Colleton  
843-908-0931

**JD 4630**  
w/Westendorf TA 46 ldr, 5600 hrs, strong tractor, no leaks, no blow by, \$21,500  
Al Matheny  
Bamberg  
803-793-7134

**UTILITY TRACTOR**  
Cat Challenger MT315B, 2wd, 58 hp, 1 owner, \$7500  
Michael Strickland  
Laurens  
864-923-3153

**FERGUSON TRACTOR**  
T 30, & a parts tractor, \$1500 obo  
Tommie Blackwell  
Aiken  
803-292-4286

**9' KUHN DISC MOWER**  
w/3ph, \$2000  
Lemuel Bradley  
Lancaster  
803-416-3135

**JD 8430**  
6000 hrs, \$79,500  
Tina Craig  
Barnwell  
803-541-1628

**72 JD TRACTOR 4000**  
dsl, wide frt end, good tires, \$8500 obo  
Henry Carroll  
Calhoun  
732-539-7631

**16' NO TILL DRILL**  
Great Plains, w/coulters on frt, shed kept, \$7000; Komatsu D85E, new undercarriage, more, \$25,000  
Starrett Hall  
Aiken  
803-609-7856

**20' EQUIP TRL**  
Kaufman ER, 1200 # cap, 4 Goodyear 14 ply mode #614 HD LN tires, \$4300  
Mike Decherd  
Chester  
803-517-6644

**MOLINE AVERY TRACTOR**  
wide frt whls, needs head gasket, shed kept, \$1200  
Vance Clinkscales  
Anderson  
864-225-6084

**WIND-ROW MACHINE**  
Lewis Brothers, used 1x, NC, \$11,000  
Randall McAlister  
Aiken  
803-604-6483

**'17 JD 3025-E LDR**  
84 hrs, \$14,500; '14 GN 24' tilt, 60/40, \$5500; 14x6' GN, new tires, \$2300  
Herbert Lee  
Orangeburg  
803-707-1121

**JD 960 FOLDING FIELD CULT**  
24' W, \$2500 obo  
Glynn Webster  
Clarendon  
803-468-7403

**JD 975**  
5r switch plow, \$5500  
Tim Boozer  
Newberry  
803-924-3922

**GN 8x16 TILT TRL**  
4x8 deck over GN, dual wheel, 12,000 lb axle, floor FC, \$1900  
David Manley  
Pickens  
864-654-1125

**NH MODEL 56**  
hay rake, \$1300; 3ph 2r cult, w/spring trip feet, \$250  
Randell Oswalt  
Saluda  
803-687-1999

**'45-46 JD L H**  
4 new tires, good straight tractor, not running, '55 JD not running, good restoration, \$2000  
Sidney Rector  
Richland  
803-269-2900

**CORN PICKER**  
NI 2r model 324, EC, shed kept, \$3700  
David Williams  
Wagener  
803-507-3415

**MANURE SPREADER**  
ABI Classic, 25cf ground drive, \$2000  
Steve Jones  
Spartanburg  
865-583-7027

**HAY TUMBLE BUG**  
\$500; 3pt scoop pan, \$150; 454A row crop head, needs work, \$800  
Christopher Derrick  
Edgefield  
803-480-0465

**70HP DEUTZ**  
mod D7206, w/2845 Bush Hog ldr, \$6800  
Terry Gibert  
Greenwood  
864-993-4212

**250 BELARUS**  
not running, w/180 Allied ldr, \$1200; 594 Allied ldr, w/ new hoses, EC, \$4000  
David Whitener  
Spartanburg  
864-266-7455

**CASE IH NOTILL DRILL**  
\$11,000; MX285 w/Trimble auto steer, \$55,000; 6r KMC ripper bedder, w/shaper pan, \$11,000  
Danny McAlhaney  
Bamberg  
803-793-7095

**TURBO TILL**  
Great Plains 1700, GC, \$16,000  
Jeffrey Gilmore  
Chesterfield  
843-517-0315

**IH 5500 CHISEL PLOW**  
9 shank, 3ph, \$1500  
Randell Wilson  
Abbeville  
864-378-4924

**BEE HORSE TRL**  
GN, camping area, awning, AC, hyd jack, new tires, triple axles w/brakes, \$16,500  
Cecil Hooks  
Marion  
843-430-4906

**HAY BALE UNROLLER**  
3pt hyd; 3pt pulverizer, \$500 each; 7' King Cutter bush hog, 2 whl, GC, \$1500  
Bobby Baker  
Lancaster  
803-804-2230

**STOCK TRL**  
good flooring, more, \$2070; '07 3h SL Bee trl, LQ, hyd jack, generator, 10' short wall, more, \$19,600  
Claire Long  
Chester  
803-872-4840

**'03 FORD F550**  
6.0 dsl, auto 4WD, GN, pintle hook, Reese hitch, more, \$8500  
Craig Prince  
Greenville  
864-417-3614

**JD 720 DSL**  
GC, \$10,500; Ford 131, 7 shank chisel plow, \$850; 1H 510 grain drill, \$2100; 2-2r JD 71 flex, \$1250  
Adam Anderson  
Newberry  
803-924-8466

**5' BOX SCRAPE**  
3ph, 6 teeth (rippers), \$500  
Bobby Childress  
Piedmont  
864-845-6238

**PINE STRAW BALER**  
JD 24T (E0024), \$750  
Walter Ornes  
Aiken  
507-450-8069

**NH 256 HAY RAKE**  
\$1200  
Al Harlan  
Spartanburg  
864-316-9636

**953 CAT TRACK LDR**  
\$30,150 obo; 6 ton fert/Lime spdr, Chandler, all hyd, \$12,556 obo  
Otis Hembree  
Spartanburg  
864-316-1222



FARM EQUIPMENT, CONTINUED

ADS MAY NOT BE SUBMITTED BY COMMERCIAL DEALERS.

<b>BUSH HOG MOWER</b> Woods 6' BB720, \$2500; Woods 7½ finish mower, RD990X, \$3500; both shed kept & VGC Vernon Bonner Sumter 803-481-4225	<b>4WD JD 4960</b> 200hp, \$48,000; 500 bu EZ-Trail grain wagon, EC, \$7500; JD 6500 Highboy, \$25,000; all shed kept Thomas Fink Lexington 803-622-4678	<b>FORD 8N TRACTOR</b> 16 disc harrow, 5' slip clutch bush hog, scrape blade, scoop pan, 16' dual whl trl, \$4500 Gary Keisler Lexington 803-622-5454	<b>'99 JACKSON 3H TRL</b> SL, GN , steel frame, alum skin, frt dressing rm, rear tack, \$7000 Linda Sinclair Lexington 803-360-5597	<b>JD 350 BULLDOZER</b> w/canopy & straight blade, good motor, needs minor track repair & battery, \$3900 Bill Lucas Lexington 803-465-0259	<b>AC GRAIN HEADER</b> 13', FC, \$500; Necco barrel seed cleaner, GC, shed kept, \$3500 Mary Anderson Richland 803-446-3326
<b>'49 8N FORD</b> new gas tank, hydraulic works, \$2500 David Julian Spartanburg 864-979-3957	<b>CAT D6C</b> p/s, 10' cable blade, \$22,000; JD 3720 4x4 4 in 1 ldr, 600 hrs, \$23,000; Yanmar 2000, \$3200 Ronald McGraw Lancaster 704-547-1832	<b>INTL 1440 COMBINE</b> GC, \$9900 Charles Nichols Saluda 864-445-8350	<b>853 NH RND BALER</b> & 479 hay conditioner, \$3800 Robert Blanton Cherokee 864-838-8765	<b>'13 FRONTIER RC2060</b> rotary cutter, GC, new blades, needs new seals, \$500 obo Michael Longshore Lexington 803-312-2538	<b>850 MF COMBINE</b> 6r corn & 18' grain headers, 4r corn for parts, all shed kept, all manuals, \$9000 David Earley Orangeburg 803-534-3689
<b>13' BURCH DISC</b> w/cylinder, \$1800; Flat bottom grain trl, \$600; 4 rack tobacco trlrs, \$300 each Michael Lane Williamsburg 843-372-6898	<b>40' SEMI TRL</b> for storage, circa '75, dry inside, \$1800 Allen Kirchner Aiken 803-646-0999	<b>JD VAN BRUNT GRAIN DRILL</b> 10' planting width,16 disc openers, shed kept, \$1250 Hugh Knight Orangeburg 803-539-4674	<b>7' BUSH HOG</b> Bush Hog brand, PB type, 2 whl, hyd lift, \$700 Kenneth Hair Edgefield 803-480-4540	<b>B AC TRACTOR</b> good motor & transmission, needs steering section, has some equipment, \$400 obo Donald Henson Spartanburg 864-463-4091	<b>140 FARMALL</b> w/cults, \$3300; 1650 Oliver, \$5900; 1950 JD "B", \$2900 Thomas Buzhardt Newberry 803-940-0726
<b>RAINBOW SOFT HOSE TRAVELER</b> complete Irrig sys, PTO pump, 1000'+ 6" alum pipe, \$3500 obo Leon Fulmer Newberry 803-924-0493	<b>420-D CAT BACKHOE</b> 4x4, 4n1 bucket, new paint & tires, pilot controls, \$26,000 Ronnie Murphy Fairfield 803-600-6623	<b>'93 NH640</b> auto tie, GC, twine only, shelter stored, 11,000 bales total, \$3600 Thomas Holley Jefferson 704-635-9355	<b>FORD 851 DRAWBAR PLATE HANGER</b> part number NDA809A, \$100 Tom Kirkley Lancaster 803-246-8195	<b>IH 1020 HDR AUGER</b> 15', EC, \$500 Jason Nichols Saluda 864-992-2753	<b>'06 WILSON 42' BELT TRL</b> 42" belt, GC, \$30,000 obo; 2000 FLD 120 day cab, \$24,000 Don Bowman Abbeville 864-617-7253
<b>DRAG HARROW</b> \$250; 4r bedder, \$500; 4r AC planter, \$250 Jason Dangerfield Beaufort 843-263-5664	<b>8N FORD TRACTOR</b> Sherman trans, decent tires, new parts, \$2600; 9N Ford, 6v, all orig, \$1800 Joe Polk Chester 803-379-7031	<b>KUHN DISC MOWER</b> 9' mounted on KMC cart, \$10,000; Krone 4 basket tedder, \$7500; Kuhn 8 whl rake, \$4000 Wingard Copeland Bamberg 803-259-6894	<b>EBY ALL ALUM STOCK TRL</b> 20' on the floor, 27' overall, GC, \$13,500 Suzan Sallstrom Lexington 914-204-4189	<b>FORD 3000 DSL TRACTOR</b> 1960-65, GC, new paint, \$5500 John Bouchillon Barnwell 803-300-9955	<b>CASE 8465 RND BALER</b> auto w/mon, GC, \$3200 obro; '18 HD 7'x20' plus 2' dove tail trl, EC, \$3500 William Shealy Lexington 803-513-3485
<b>KUBOTA TRACTOR L2900</b> 32 hp, PS, w/Bush Hog 2245QT frt ldr, 6' rotary tiller, \$8000 Roger Graham Abbeville 864-379-4030	<b>AC WD W/6' BUSH HOG MOWER</b> & AC 2 btm plow, tuned up, ready to work, \$1950 Joseph Berendzen Newberry 803-348-0300	<b>4 BASKET KHUN TEDDER</b> \$2700; 8 whl Rossi mod RP4-5 v rake, hyd fold, \$3100 cash; both under shed Randy Orr Anderson 864-295-3736	<b>NH TR75 COMBINE</b> 15' grain header, runs good, needs minor repairs, \$3000 Mike Armstrong Greenville 864-630-6174	<b>17' HD TRAILER</b> 8 whls, 20 ton, \$2400 Stevenson Thomas Greenville 864-908-5809	<b>'52 FORD 8N</b> GC, \$3000; D65 EX Komatsu dozer, \$40,000 Jimmy Wilson Anderson 864-923-2348
<b>NI324 2R CORN PICKER</b> \$4500; 2 gravity wagons, \$1500 & \$1800; KMC 14' cult, \$2500 Louis Tumbleston Charleston 843-371-0708	<b>CASE/IH 3230 TRACTOR</b> w/cab, AC & heat, 4237 hrs, dual remotes, w/hyd 3ph hay fork, \$8000 Allen Sutherland Aiken 803-266-5189	<b>NITROGEN APPLICATOR</b> 300 gal John Blue; Sitrex 2 basket tedder, 3ph, \$1200 each; 9' Morra disc mower, \$3000 Rickie Evans Chester 803-209-2714	<b>OLIVER S77</b> dsl RC, EC, \$2800; Freeman frt end ldr, off Case tractor, \$500 Wayne Bowyer Cherokee 864-491-8989	<b>KUBOTA MX5000SU</b> 50 hp, 740 hrs, w/20 blade dis harrow, 5' box blade, 6' bush hog, shed kept, EC, \$10,000 Bob Roberts Georgetown 843-546-4800	<b>3PT DELUXE YORK RAKE</b> 8' w/adj whls & integrated grader blade, more, \$575; 3pt sprayer 60' hyd booms, more, \$1500 Dennis Martineau Aiken 803-979-3999

FARM LABOR

NOTICES ARE ACCEPTED FOR AGRICULTURAL WORK ONLY AND NOT FOR HOUSEWORK, NURSING, OR COMPANIONSHIP NEEDS.

<b>FENCES BUILT TO YOUR SPECS</b> free estimates, statewide Bruce Thomas Dorchester 843-636-1699	<b>TRACTOR SVC REPAIR</b> tires, eng rebuilds, clutches, cab interior kits, comp restoration & painting David Moss Spartanburg 864-680-4004	<b>BUSH HOG MOWING</b> light tilling Vernon Bonner Sumter 803-481-4225	<b>TRACTOR/EQUIP REPAIR</b> & maint by certified dsl/hvy equip mechanic, will travel from Camden/Rembert for fee Austin Shealy Sumter 803-223-3994	<b>DOZER/TRACKHOE WORK</b> build & repair ponds, demo, tree removal, land clearing, roads, free est James Hughes Greenwood 864-227-8257	<b>LAND CLEARING</b> grading & bush hogging, remove stumps, grade pads & driveways, dig basements, footers & more Grant Gerrard Anderson 864-992-0303
<b>BUSH HOGGING SERV</b> experienced 7 ensured, \$50/ hr w/4 hr minimum Jason Poole Lexington 803-513-4823	<b>EXCAVATOR FORESTRY MULCHING</b> reclaim ponds, fence lines, ditches, land, pastures, pine forests, banks, more Dakota Hollman Lexington 803-687-6382	<b>LIME SPREADING</b> specialize in bulk TN lime, call for est Drake Kinley Anderson 864-353-9628	<b>SAW MILLING</b> logs to lumber, with portable sawmill, your place or mine Art Limehouse Pickens 864-952-9688	<b>TRACTOR WORK</b> bush-hog, blade, disk, cut trees not threatening structures, 20 mis of home, call for est David Wannamaker Calhoun 803-682-2117	<b>POND CONSULTATIONS</b> pond stocking, turtle & fish traps, misc other traps, feeders, aerators, pond structure Clay Chappelle Richland 803-776-4923
<b>LAND MANAGEMENT</b> bush-hogging, pasture repair/renovation, discing, have truck & trl, will travel Elijah Caudill Fairfield 803-465-0329	<b>CUSTOM SPRIGGING</b> Coastal Bermuda, Tifton 85, Tifton 44 & turf grasses, row or fairway planters, call for est Timmy Benton Colleton 843-908-3222	<b>UNDER BRUSHING</b> bush hogging, skid steer grading & clearing Bayne Brown Greenville 864-380-6460	<b>DOZER/TRACK HOE</b> & drag-line work, pond repair/digging & dredging, lot/land clearing & grading Nathan Oswald Lexington 803-317-3090	<b>LIGHT TRACTOR WORK</b> to incl bush hogging, discing, cut up & removal of downed trees, light landscaping John Tanner Lexington 803-422-4714	<b>LEXCO TACK CLEANING</b> leather bridles, saddles, harnesses & accessories, your place or mine Laurie Knapp Lexington 803-317-7613
<b>FENCING</b> farm & pasture, free quotes, specializing in fencing & more Jon-Michael Helms Chester 803-371-4875	<b>LAND CLEARING</b> backhoe work, stump removal, track skid steer w/ lnd bush hog, 4n1 bucket, refs avail Dusty Parker Chester 864-426-2787	<b>MULCHING</b> landscaping, small tree removal, fire lanes, food plots, shooting lanes, Calhoun & Orangeburg area John Smith Calhoun 803-664-1146	<b>CUSTOM SPREAD</b> TN Valley lime, fert, call for prices Gene Roe Greenville 864-630-1768	<b>TRACTOR/EQUIP REPAIR</b> all makes & models, dsl, gas & small eng, lawn & garden equip, generators, 9" Ford gear repair Tommy Kiser York 803-684-4363	<b>CB &amp; TIFTON 44</b> custom planted, w/Bermuda King 4r planter, 35+yrs exp, sprigs avail, \$1-75/bu Eddie Adams Darlington 843-307-4121
<b>PORTABLE SAWMILL SERV</b> statewide, saw logs up to 30"W & 20"L Lowell Fralix Barnwell 803-707-5625		<b>PASTURE MGMT SERV</b> spray weeds, treat fire ants, licensed, spread fert & lime Kenny Mullis Richland 803-331-6612	<b>TRACTOR REPAIR</b> restoration, all types, 50yr exp George Bush Lexington 803-640-1949		

FRESH PRODUCE

PRODUCE MUST BE RAW AND NON-PROCESSED. RAW MILK, BUTTER, AND CHEESE PRODUCTS MUST BE PERMITTED BY THE SC DEPT. OF HEALTH AND ENVIRONMENTAL CONTROL. AN EGG LICENSE IS NOT REQUIRED FOR ON-FARM POINTS OF SALE.

<b>PECANS</b> completely shelled, \$10/ lb; cracked & blown \$4.50/ lb; in-shell \$3/lb, p-up in Newberry or Irmo Russell Shealy Newberry 803-944-7316	<b>PECANS</b> shelled, in bags, \$9.90/lb F Rowe Newberry 803-271-7768	<b>FREE RANGE EGGS</b> brown, white, blue, green, \$4/dozen Joe Culbertson Greenwood 864-229-5254	<b>PECANS</b> crack & shell your pecans, 60¢/lb, 20lb min Tracy Ferguson York 803-371-4595	<b>FRESH JERUSALEM ARTICHOKES</b> washed 3x, \$4/lb Wayne Haltiwanger Lexington 803-957-3145	<b>SUGARCANE</b> Blue Ribbon, \$50/100 stalks FC Noles Barnwell 803-383-4066
<b>MARKET BULLETIN</b>	<b>PECANS</b> shelled, \$10/lb Wayman Coleman Abbeville 864-379-1138				



FARM LAND

FARM LAND MUST BE OFFERED FOR SALE BY THE OWNER, NOT AN AGENT. TRACTS MUST BE AT LEAST 5 ACRES UNDER CULTIVATION, TIMBER, OR PASTURE. OUT-OF-STATE OWNERS – NOT REAL ESTATE AGENTS – MAY NOW SUBMIT ADS FOR LAND IN SOUTH CAROLINA.

**25+/-A TIMBERLAND**  
Allendale Co area, ½ cut, deer, turkey, cypress pond, home site, \$42,000  
Kimberly Carter  
Florence  
843-206-1680

**21A LAKE RUSSELL**  
wooded, exc hunting & fishing, \$109,000  
Shirley Huston  
Abbeville  
803-917-9665

**70 +/- A LEE CO**  
planted in Loblolly pines, small pond, road frontage, good hunting, \$2700/A  
Steve Russell  
Clarendon  
864-630-8928

**WANT 50-150A**  
to buy for planting, pasture & home stead in Spartanburg, Laurens, or Union Co's  
James Daugherty  
Spartanburg  
864-505-4320

**94.6A+/- TIMBERLAND**  
Lancaster Co, TM#0113-00-022.00, 35 y/o pines, \$315,000  
John Horton  
Beaufort  
832-651-0918

**203A TIMBERLAND**  
near Greenwood, 3 age classes of trees & hdwds, \$375,000, no leases  
Jenks Patrick  
Greenwood  
864-631-2770

**WANT LAND TO BUY**  
suitable for hunting in Allendale, Bamberg, Hampton Co's  
David Froehlich  
Bamberg  
803-368-0097

**WANT LAND TO LEASE**  
in Upstate, for bow/gun hunting, have ins, will protect & enhance property  
Cary Cox  
Greenville  
864-918-1691

**WANT SM FARM W/HOME**  
4+A, open/wooded, Upstate/foothills areas, to \$100,000, cash buyer  
Susan Georgion  
Greenwood  
423-440-4196

**WANT PASTURE FOR LEASE**  
Chester & York Co's, for cattle, preferably fenced, but can fence yours  
Jon-Michael Helms  
Chester  
803-371-4875

**41.37A ABBEVILLE**  
½ pine trees, ½ open land, 3500' rd frtage, 3 mis to Lake Russell, \$155,000  
James Bradberry  
Abbeville  
864-446-2744

**40A +/- HORRY CO**  
cropland for rent, \$15/A  
James Frye  
Horry  
843-408-5851

**WANT FARMLAND**  
to lease east of the I-95 corridor in SC, irrigated or non-irrigated, min 100 contiguous acres  
Thomas Rowland  
Georgetown  
843-979-2221

**106 A MATURE HDWD**  
w/mixed pine timber & lrg creeks, managed for quality bucks/turkey 3 yrs, \$400,000  
William Ware  
York  
803-517-8060

**53.2A TIMBER**  
Hwy 25 Ware Shoals, Laurens Co, home site, buried utilities, septic/well, no dividing, \$158,900  
Jim Horky  
Greenville  
864-990-5823

**41+/- A SALLEY**  
most woody w/branch, poss sm pond site, fronts 2 rds, \$130,000  
Barney Williams  
Lexington  
803-543-8715

**28.96A FARM LAND**  
pasture, creek runs through, small timber area, off Hwy 76 in Prosperity, deer, \$160,000  
Newberry  
Lisa Cumalander  
803-924-3616

**WANT 5-20A PASTURE**  
for cows, goats, sheep, can fence, anywhere in the Upstate  
Megan Stewart  
Spartanburg  
828-545-9304

**12+A FOR LEASE**  
upper Abbeville Co, on Bell Rd, open for planting, reasonable & poss 1<sup>st</sup> yr free  
Vance Clinkscales  
Anderson  
864-225-6084

**62A TIMBERLAND**  
on Hwy 215, turkey & deer, timber will be thinned to a plantation stand, \$1650/A  
Carl Gullledge  
Fairfield  
803-530-8885

HOGS

**FEEDER PIGS**  
9 wks barrows & gilts, \$50+  
Jason Murphy  
Fairfield  
803-402-5877

GOATS / LLAMAS / SHEEP

**2 BRED GOATS**  
due Jan & Feb, \$200 each  
Mike Komar  
Lexington  
803-582-8132

**10 BILLIES**  
pure Koy Ranch from DNA reg stock, 6-18 m/o, \$200-400  
Thomas Tanner  
Georgetown  
843-558-2870

**PB BOAR BILLY GOATS**  
1-5 y/o, \$200-500, depending on age & size  
Mark Keisler  
Lexington  
803-359-9589

**2 PYGMY GOATS**  
1 b/w 3 y/o male, \$120; 1 wht/blk head 15 m/o male, \$100  
Joe Gilreath  
Greenville  
864-834-9885

**BOER BILLIES**  
\$150+  
Johnny Hickey  
Chesterfield  
843-537-7535

**BRAIR BILLY GOATS**  
1 y/o, diff colors, mostly blk & wht, \$75 each  
Michael Gatlin  
Lexington  
803-513-8995

**3½ Y/O M PYGMY GOAT**  
de-horned & neutered; Nubian pet goat, 30lbs, \$100 each  
Eugene Wilson  
Lexington  
803-687-8458

**SAVANNA KIKO CROSS**  
& full Kiko, \$200+  
Bobby Page  
Spartanburg  
864-494-2501

**HAIR SHEEP HERD**  
ewes only, \$200-225 each  
Kathy DeLong-Anson  
Lexington  
803-582-8272

**BILLIES**  
Boer & ¾ Boer & milk goats, 10 m/o, some w/no horns, \$150 & \$200 each; females, \$150 & \$200 each  
Philip Poole  
Union  
864-427-1589

**BLK BOER BUCK**  
& spotted Boer bucks, 18 m/o, \$500 each; yng comm Boer cross nannies, \$175-200 each  
Ronald Greene  
Lexington  
803-513-6093

**REG ST CROIX RAMS**  
8 m/o, nvr needs worming, multiple generation of no worming, well-muscl'd, \$375  
Eddie Martin  
Anderson  
864-296-0454

**ABGA REG BUCKS**  
2-3 y/o, herd reduction, traditional & solid red, DNA tested, \$200+  
William Walker  
Greenwood  
864-993-4359

**2 SAVANNA BUCKS**  
3½ proven breeder, can throw twins, reg & papers, \$600; 97% 2½ proven breeder, \$475  
John Bouchillon  
Barnwell  
803-300-9955

**REG KATAHDIN RAMS**  
3 y/o, 1 y/o & 4 m/o, \$150-400, red & 1 white  
Benson Ray  
Georgetown  
843-933-5367

HAY & GRAIN

**'19 HQ 4x5 RND CB**  
net wrap, \$50 each; '18 hay, \$25-40 each, del avail  
Terry King  
Lexington  
803-381-6177

**SHELL CORN**  
50lb bag, \$8/55 gal drum; \$40/cracked corn, 50lb bag, \$8  
Plato Kneece  
Aiken  
803-532-6723

**SQ '19 CB**  
good hay, \$5  
Craig Henry  
Beaufort  
843-521-3826

**MIX GRASS & CORN STALKS**  
4x5, \$22.50/bale; fescue, \$35-45/bale, sq, \$6  
Melvin Barr  
Pickens  
864-360-5176

**'19 4x5 RND COASTAL**  
HQ, \$50; CQ, \$35; sq, \$6, del avail  
Bobby Zimmerman  
Lexington  
803-317-8681

**'19 GOAT HAY**  
4x5, \$17  
F Rowe  
Newberry  
803-271-7768

**'19 SQ CB**  
\$5.25, Wagener area  
John Yoder  
Aiken  
803-221-1566

**HQ HAY**  
Bermuda grass for horses, \$40/bale; cow hay, \$30/bale; all 4'x5' rnd bales  
Darrell Kellett  
Greenville  
864-303-1697

**'18 SQ FESCUE**  
no rain, in barn, \$5 each  
Jerry Butler  
Laurens  
864-697-6343

**'19 4x5 HQ CB**  
net wrap, no rain, shed kept on pallets, del avail for fee, \$50/bale  
Oscar Easler  
Lexington  
803-530-6501

**'19 5x4 FESCUE**  
shed kept, HQ & CQ, \$35  
Wesley Boland  
Newberry  
803-768-2010

**CQ HAY**  
4x5 bales, \$35  
Tony Williams  
Edgefield  
803-391-5713

**'19 FESCUE & MIXED GRASS**  
HQ, 4x4 rnd, net wrap, sprayed, fert, limed, \$26-30 ea, del avail  
Donald Counts  
Newberry  
803-315-1016

**SPRING MIXED GRASS**  
4x4 rnd, no rain, \$25 each  
Randy Orr  
Anderson  
864-295-3736

**4x5 RND COASTAL**  
twine tie, limed & fert, del avail, \$35  
Jason Poole  
Lexington  
803-513-4823

**'19 HQ COASTAL**  
barn kept, no rain, \$45  
Raymond Hallman  
Lexington  
803-730-4765

**'19 3<sup>RD</sup> CUT ALFALFA**  
lrg 3x3x8 sq's, from SD, 900 lbs, \$180/bale, cash only  
Chris Roux  
Cherokee  
864-906-5471

**SQ HQ COASTAL**  
3<sup>rd</sup> cutting, \$5 at barn, can del for fee  
Jerry Padgett  
Berkeley  
843-761-2049

**RND CB**  
all fert & sprayed,'18, \$20/bale; '19, \$45/bale  
Lee Ringler  
Aiken  
803-979-9283

**'19 SQ CB**  
\$5/bale, all shed kept, del avail for fee  
Nathan Oswald  
Lexington  
803-317-3090

**'19 4x5 RND CB**  
\$40, under shed; \$35, in field; '18 bales, \$30, in field  
Josiah Williams  
Bamberg  
843-693-1970

**CQ RND CB**  
\$25 each  
Marty Sharpe  
Lexington  
803-529-3196

**DEER CORN**  
cob & shelled, \$7/bag, disc on lrg amts  
Drake Kinley  
Anderson  
864-353-9628

**BERMUDA**  
\$30; Bahia, \$25  
Danny McAlhaney  
Bamberg  
803-793-7095

**'19 HQ 4x5 RND CB**  
net wrap w/o rain, fert & limed, \$50 each; CQ, \$35/\$25 each, del avail + del fee  
Henry Welch  
Berkeley  
843-899-5414

**MILO (GRAIN SORGHUM)**  
55 gal drum, \$40  
Jeffrey Gilmore  
Chesterfield  
843-517-0315

**'19 OAT STRAW**  
\$4/bale  
Brent Williams  
Colleton  
843-631-0914

**PERENNIAL PEANUT HAY**  
prem 50-55 lb sq bales, \$10, del avail  
David Froehlich  
Bamberg  
803-368-0097

**'19 FESCUE MIXED**  
rnd 4x5, in barn, \$50; field, \$40  
Bobby Baker  
Lancaster  
803-804-2230

**HQ SQ CB**  
\$5.50 each; 4x5 rnd Coastal, \$45 ea; rnd 4x5 good & clean  
Orchid/crab grass, \$35 each, all shed kept  
Howard McCartha  
Lexington  
803-312-3316

**'19 4x5 HAY**  
net wrap, \$35  
Steve Fleming  
Edgefield  
864-554-0399

**COB DEER CORN**  
\$7 & \$9 bags  
Tim Boozer  
Newberry  
803-924-3922

**'19 SHELLED CORN**  
\$45, in your 50 lb barrel  
Craig Prince  
Greenville  
864-417-3614

**'19 4X5 RND CB**  
HQ, \$45 each; GQ, \$40 each; cow hay, \$35 each  
Carroll Harmon  
Lexington  
803-359-3956

**MIXED GRASS**  
sq, \$6; corn shelled, 1 bu bags, \$7.50; 55 gal barrel, \$40, in your barrel  
Mike Armstrong  
Greenville  
864-630-6174

**HQ HAY**  
\$30; CQ, \$20, both 4x5  
Ricky Williams  
Allendale  
803-686-1598

**SHELLED CORN**  
\$40; oats, \$35, both in your 55 gal; more  
Tom Fink  
Lexington  
803-622-4678

**HQ COASTAL**  
sq, \$7  
Theresa Kirchner  
Aiken  
803-646-0999

**COASTAL HAY**  
HQ sq, \$7-50; HQ rnd, \$65; CQ, rnd, \$50; mulch hay, \$30  
Timmy Benton  
Colleton  
843-908-3222

**'19 4x5 RND HQ HAY**  
net wrap, shed kept, \$45 each  
Carlisle Kinard  
Bamberg  
803-267-5762

**'19 BROWN TOP MILLET**  
4x4, no rain, twine wrap, barn stored, \$25/bale  
Joseph Rister  
Newberry  
803-920-9153

**'18 OATS**  
2000 bushels, \$4/bu or \$35/55 gal barrel  
Tommy Coggins  
Laurens  
864-682-0490

**'19 4x4 CQ FESCUE**  
stored on bed, \$25, local del of 20+  
Wes Cadwallader  
Greenville  
864-991-9288

**'19 HQ SQ CB**  
\$6; rnd, net wrap, \$45; good CQ, \$35; all shed kept  
Clayton Leaphart  
Lexington  
803-892-2642

**'19 RYE GRASS**  
net wrap, \$40  
Charles Nichols  
Saluda  
864-445-8350

**WHEAT STRAW**  
sq, \$4/bale  
Jason Nichols  
Saluda  
864-992-2753

**'19 COASTAL MIX**  
4x5 twine, in field, cow hay, \$25/bale  
Michael F Hallman  
Lexington  
803-657-5526

**'19 4x5 RND CB**  
shed kept, no rain, net wrap, \$45  
Sam Rikard  
Lexington  
803-892-2630



HAY & GRAIN, CONTINUED				GARDEN
<b>'19 HQ SQ CB</b> barn kept, \$7 Albin Leuzinger Spartanburg 864-256-7139	<b>DEER CORN</b> shelled, \$6.50/50 lb bag Raymond Campbell Richland 803-429-0677	<b>4x5 FESCUE</b> shed kept, \$35/bale Buddy Griffith Anderson 864-979-8445	<b>'19 SHED KEPT CB</b> fert & lime, del avail for fee, \$45/bale Eddie Chavis Barnwell 803-671-3108	<b>ADS ARE NOT ACCEPTED FROM COMMERCIAL NURSERIES, WHICH ARE DEFINED AS HAVING ANNUAL SALES OF \$5,000.</b>
<b>'19 HQ CB</b> sq, \$5.50; rnd, \$45, del avail Wayne Howle Darlington 843-332-8063	<b>OATS &amp; CORN</b> \$40 each, your 55gal drum Mary Anderson Richland 803-446-3326	<b>'19 CQ MIXED GRASS</b> 4x5 rnd, \$30 each Danny Leitner Fairfield 843-200-0887	<b>'19 CB HAY</b> net rnds, \$45 each; sq's, \$6 each, can del Andrew Rice Allendale 803-686-1208	<b>LRG BLUEBERRY PLANTS</b> 3 y/o, 2 var & blkberries, \$5; Fig & Pomegranate trees, \$10; muscadine, \$7.50 FC Noles Barnwell 803-383-4066
<b>'19 TIFTON 85</b> 4x5 net wrap, \$35/bale Denny Bailey Barnwell 803-793-7343	<b>CRABGRASS</b> sq, \$5 Jackie T Rogers Spartanburg 864-576-0736	<b>HQ 4x4 FESCUE</b> in barn, \$35 Bobby Page Spartanburg 864-494-2501		<b>BLUEBERRY GARDEN</b> 8' & 6', estab in lrg pot, \$50 Francis Shiver Kershaw 803-669-1979
MISCELLANEOUS				

<b>PRIEFERT CHUTE</b> w/pal cage, auto/man oper, has dolly for easy moving, LN, \$4500; more Rudy Williams Clarendon 803-938-2945	<b>PECAN FIREWOOD</b> seasoned, 18"L, \$100/cord; \$30/ 1/5 cord; shedded, \$150/ cord, \$40/ 1/5 cord Tom Harmon Lexington 803-530-3348	<b>SUGAR CANE MILL</b> \$895; 80 sheets tin, 3x30', \$350 Coleman Dangerfield Berkeley 843-200-8214	<b>OAK FIREWOOD</b> del, stacked, cut to size, full size p/u load, Cola, Irmo, Chapin areas, \$125 Ronald Wright Richland 803-606-1666	<b>100 PRODUCE CRATES</b> collapsible, 24"x10"x11", open, mfg #6425, \$5 each John Mahon Chesterfield 843-910-7352	<b>FENCING MATERIALS</b> split rail, 4 corner posts, 70- 11' rails, 34 posts, 4 end posts; \$900 Beth Abel York 803-372-8833
<b>SCOOP PAN</b> horse drawn, \$75; Sand clay or topsoil, 5 ton load, del w/in 20 mis of home, \$50, sand clay; \$75, topsoil David Wannamaker Calhoun 803-682-2117	<b>REDWORMS</b> \$32/1000; bed run, \$28/ lb; LS swamp worms, \$37/1000; bed run, \$33/lb; stocked beds at farm Terry Unger Greenville 864-299-1932	<b>POULTRY MANURE</b> \$420/load, (45 cy), free local del avail Marc Marsh Chesterfield 843-862-8873	<b>DAVID BRADLEY</b> tractors & implements, in Newberry Co, \$100-400 Linda Lawrimore Williamsburg 843-992-1496	<b>OLD FARM BELLS</b> CS Bell Co, #4- \$450; #3-\$350; hash pots, 60 gal w/stand-top, \$600; 20 gal, \$200; more Perry Masters Greenville 864-561-4792	<b>75KW GENERATOR</b> & transfer switch, single phase, <500 hrs, \$9500 Michael F Hallman Lexington 803-657-5526
<b>OVAL HOSE TUBING HEADER</b> for drip irrigation, 4"x130' & 3"x200', \$100/roll Ben DuBard Lexington 803-307-9694	<b>1- 16x38 RIM</b> \$200 obro; 2- 14.9 x 26 tires w/rims, \$350 each obro Larry Spotts Newberry 803-364-3060	<b>GIANT MOSO BAMBOO</b> 2"-5" dia, flame cured, natural air cured, green & live, 3'-12' cuts, \$5-18/ft Jeff O'Cain Richland 803-343-9919	<b>ROPER RIDING MOWER</b> 16hp, 44" cut, \$399 obo; 4x4 steel welding table, \$299; 30" Snapper mower, \$299 obo Otis Hembree Spartanburg 864-316-1222	<b>CROSS CUT SAW</b> ex wide, \$75 R Long Newberry 803-924-9039	<b>CEDAR POSTS</b> rnd or split, all sizes, \$3+; live edge, \$3/bdft T Campbell Chester 803-518-0907
<b>HONEY EXTRACTOR 9- F-</b> Radial hand extractor & H- knife & sieve, more, used 1x, \$700 Hugh Williams Spartanburg 864-457-2013	<b>SICKLE BAR MOWER,</b> 1 horse/mule drawn, mfg by Oliver, \$300 Chuck Hatchette Spartanburg 864-597-2532	<b>GIANT MOSO BAMBOO</b> 2"-5" dia, flame cured, natural air cured, green & live, 3'-12' cuts, \$5-18/ft Jeff O'Cain Richland 803-343-9919	<b>CANE MILL</b> steel tanks, 1000 gal, \$600; 500 gal, \$400; 2 300 gal, \$200 each Jason Dangerfield Beaufort 843-263-5664	<b>PRODUCE CRATES</b> collapsible, 18"x12"x12", \$1 each; ¾ chain, \$1/ft Russell Goings Union 864-426-2309	<b>'16 SPINNING MACHINE</b> Schacht Matchless ST, many accessories, \$1150 Kenneth Hair Edgefield 803-480-4540
<b>PURPLE MARTIN GOURDS</b> cut, ready to hang, sm, med & lrg, \$1-3.50 each; uncut, 50¢-\$4 Robert Yonce Aiken 803-685-7240	<b>PINE LUMBER</b> kiln dried rough, 1x6 -1x8, \$1/bdft; 1x10-1x12, \$1.10/bdft Jonathan Brabham Barnwell 803-541-5564	<b>RND CEDAR POSTS</b> cut to var sizes, 4-12" dia, 6-20', \$5-18/size; cedar lumber, \$2/bf Douglass Britt McCormick 864-391-3334	<b>PROTECH STEP TOOL BOX</b> 15"x30"x31", mod 20-2911-31, new, alum, cab entry, \$400 obo Stanley Taylor Chester 803-789-5236	<b>PLATFORM SCALE</b> \$125; 1 propane & 3 oxygen bottles, \$45 for all; metal drums w/lids, \$20 each William Claxton Colleton 843-909-4285	<b>ARC WELDER</b> Lincoln AC-225-S linewelder, \$300 Mary Anderson Richland 803-446-3326
<b>55 GAL PLASTIC DRUMS</b> food grade, \$20 each; 55 gal, \$15, all are food grade, open top lids & rings, metal; more Philip Poole Union 864-427-1589	<b>CROSS TIES</b> 8' @ \$11 Wayman Coleman Abbeville 864-379-1138	<b>34'x36' HAY SHED</b> steel roof on treated wood poles, open all sides, you dis- mantle & move, \$800; more William Lucas Lexington 803-465-0259	<b>STEEL TANK</b> 12,000 gal, \$400 Carlisle Kinard Bamberg 803-267-5762	<b>CHICKEN LITTER</b> bulk loads, 25 tons, \$450, spreading avail Don Bowman Abbeville 864-617-7253	<b>MULE DRAG HARROW</b> 3 section, \$100 Harold Crocker Cherokee 868-838-5046
<b>100 RND CEDAR POSTS</b> good heart, \$1.50 each; 1" thick cedar lumber, diff widths, \$2/bdft Melvin Abell Newberry 803-440-0062	<b>4 CYL PERKINS DSL ENG</b> ADC1 9/81, \$1200 Ed Berger Dorchester 843-832-9233	<b>LRG RABBIT CAGE</b> on legs, \$35 Patty Jackson Cherokee 864-316-0741	<b>PROTECH STEP TOOL BOX</b> 15"x30"x31", mod 20-2911-31, new, alum, cab entry, \$400 obo Stanley Taylor Chester 803-789-5236	<b>POULTRY LITTER</b> tractor trailer quantities, \$450/load, w/in 40 mis of Newberry Michael Wise Newberry 803-271-4215	<b>MISC PARTS</b> incl new belt for KK 6' dbl belt finish mower, \$1 Joseph Dyches Allendale 843-812-2137
	<b>DR LAWN LEAF VAC</b> Pro model, elec start, extra vac hose, new air filter, HD, detachable cart, \$1500 Katherine Fisher Aiken 803-643-0289	<b>AMISH WAGON</b> hooks single or dbl, seats 6 w/cushions & brakes, \$1950 Cecil Hooks Marion 843-430-4906	<b>60'x84' GUTTER GREENHOUSE</b> new nvr used, w/shade cloth, \$13,000 Danny Childers Kershaw 803-549-7857	<b>CHICKEN LITTER</b> bulk loads, 25 tons, \$450, spreading avail Don Bowman Abbeville 864-617-7253	<b>D L120 RIDER MWR</b> auto, 20hp B & S, 48" cut, \$400; 1 gal pots, 10¢ each; 3 gal pots, 25¢ each John Senn Lexington 803-356-5903
		<b>225 K SUPER SAVER HEATER</b> NC, used in broiler house, \$400; 57" fans w/Kevlar shrouds, \$475; more Howard McCartha Lexington 803-312-3316	<b>3 GAL POTS</b> 25¢; 1 gal pots, 10¢ Phil Richardson Sumter 803-934-6021	<b>CALF EXTRACTOR</b> Willman model 100, L/N, \$300 Bob Mohr Greenville 864-505-3887	

PLANTS & FLOWERS					
ADS ARE NOT ACCEPTED FROM COMMERCIAL NURSERIES, WHICH ARE DEFINED AS HAVING ANNUAL SALES OF \$5,000.					
<b>MEYER LEMON</b> & Key Lime trees, \$35+ James Bouknight Richland 803-237-1289	<b>JAP MAPLES</b> Dissectums (Lace leafs) & Uprights, 2g-20g, \$39+ Mike Britton Edgefield 803-278-1468	<b>CANNAS</b> Pres Red, pink dk leaf, pink lt leaf, bengal tiger, yellow, \$12/dozen Robert Yonce Aiken 803-685-7240	<b>3 Y/O AZALEAS</b> \$2; Tea olives, Box woods, Lorepedlum, & Gardenias, \$5; Camellias, Snowballs, & Jasmines, \$12 FC Noles Barnwell 803-383-4066	<b>MONKEY GRASS</b> aka lirioppe, hosta, \$4 each; iris, daylily, \$5 each; hydrangea, gardenia, \$8.50 each Woody Ellenburg Pickens 864-855-2565	<b>CHINESE CHESTNUT</b> sawtooth oak, paw paw trees & others, 3 gal pots, \$10 & up; water lilies, \$10 Charles Makl Saluda 864-344-3831
<b>LEYLAND CYPRESS</b> & crepe myrtles,4'+T, 3 gals, \$8 each John Senn Lexington 803-356-5903	<b>APPLE &amp; PEACH TREES</b> sev varieties & chestnut trees, \$12-20, depending on size Johnathan Broach Florence 843-617-6300	<b>TREES</b> fig, pomegranate, peach, pear, \$15-25 ea; azaleas, \$5-10 ea Joe Culbertson Greenwood 864-229-5254			

RABBITS		SEED		WANT - HAY	
<b>REX</b> \$15 each & up; grown bucks, \$20 each Philip Poole Union 864-427-1589	<b>MINI REX RABBITS</b> \$20+ Billie Jean Brown Lexington 803-622-5245	<b>ALL SEED ADS MUST BE ACCOMPANIED BY A COPY OF A CURRENT SEED LAB TEST.</b>	<b>WANT WHEAT OR OAT STRAW</b> 20-50 sq bales, near Lexington Wayne Haltiwanger Lexington 803-957-3145	<b>WANT HAY</b> Mohawk Bermuda Cal Norris Edgefield 864-378-2693	
	<b>MINI-LOP/LION HEAD MIX</b> various colors, \$10 each Gina Wilber Lexington 803-653-1967	<b>COMBINE RUN OATS</b> G-85%, bulk, \$4.50/bu Buddy Felder Orangeburg 803-496-6286			



POULTRY

<b>PHEASANTS</b> breeder prs, Amherst, silvers, reeves, \$100+ Harold Dunagin Greenville 864-630-0758	<b>DIAMOND DOVES</b> \$25 each; 4 wht American fantail pigeons, \$20 each HT Austin Orangeburg 803-308-1203	<b>SILVER SEBRIGHT BANTAMS</b> \$10/pr, \$20 /trio Tim Boozer Newberry 803-924-3922	<b>BANTAMS</b> wht sultan, blk rosecomb, wht crested blk polish, mini mite, lakenvelder, \$35/trio; more Joe Culbertson Greenwood 864-229-5254	<b>GAME WARHORSE ROOSTER</b> & game wht hatch rooster, \$50 each Francis Shiver Kershaw 803-669-1979	<b>BUFF ORPINGTONS</b> & Cuckoo Marans, pullets, H-3/2019, laying, \$12 each Janet Floyd Williamsburg 843-389-9320
<b>BOB WHITE QUAIL</b> flight & weather cond, \$4 each Dennis Ballentine Newberry 803-960-3991	<b>AMERAUCANS</b> 15 hens, 14 m/o, laying blue & olive eggs, \$12 each firm, cash Cheryl Agee Orangeburg 843-505-1142	<b>ROOSTERS</b> mixed lrg breed, & some lrg game roosters, \$10 each L Gunter Lexington 803-532-7394	<b>PEACOCKS</b> Blk Shoulder, Opal White Eyes, Spaulding, White Cameo, more, \$60+ Carrie Odom Chesterfield 843-439-9601	<b>2 TOM TURKEYS</b> 6 m/o wht broad breasted, will dress +/-30 lbs, pasture during day, \$40 each Frank Garland Pickens 864-653-0856	<b>GUINEAS</b> \$8-15 each; turkeys, 4-10 m/o, \$25-40 each; OE bantams, \$10-15 each Philip Poole Union 864-427-1589
<b>RACING PIGEONS</b> breeders & '18 yng birds, nvr been out, \$8 each John Mangum Kershaw 843-334-6347	<b>FARM MIX ROOSTERS</b> \$10 each Gina Wilber Lexington 803-653-1967	<b>PHOENIX RED CHICKENS</b> \$15/pr Perry Sauls Hampton 803-943-6268	<b>ROYAL PALM TURKEYS</b> 6 m/o, 7 gobblers & 2 hens, hens will not be sold w/ gobbler, \$35 each Pete Bostic Newberry 803-940-1827	<b>BIRMINGHAM ROLLERS</b> Ruby Roller b'line, breeder age birds, lots of color & bald birds, \$20-40 Earl Owens Laurens 864-684-6993	<b>FRENCH BLK COPPER MARANS</b> copper colored egg, Roo & 1 hen, \$75; 2 hens, \$100 Dwight Gilliland Saluda 864-941-0958
<b>GAMECOCK CHICKENS</b> (hatched stags), \$40 each Earl Watts Lexington 803-794-9049	<b>15 HENS</b> spent laying, \$1 Joseph Dyches Allendale 843-812-2137	<b>ROLLER PIGEONS</b> & wht Muscovy drakes, \$12 ea William Claxton Colleton 843-909-4285			

WANT - FARM EQUIPMENT

<b>20' TWIN CYL DUMP</b> can be on a truck that doesn't run; folding row markers, for 6-8r planter Christopher Derrick Edgefield 803-480-0465	<b>HAY FEEDER CRADLE</b> for sheep & goats Nathan Shirey Lexington 803-315-6109	<b>ISO ALL TYPES OF PARTS</b> for 1H 800 series corn header, in SC Joseph Johnson Berkeley 843-567-7774	<b>WALK BEHIND TRACTOR</b> by David Bradley, in running cond, w/ implements, (if avail) Lee Hill Lexington 803-354-2862	<b>'84 IH 425 SQ BALER</b> working or for parts Glenn Mack Orangeburg 803-707-1598	<b>BACKHOE ATTACHMENT</b> 3ph Harold Wright Cherokee 864-838-4763
<b>WOODS ROTARY TILLER</b> 6', 3ph, in GC D L Dimery Lexington 803-796-2995	<b>CASE</b> JD 450 or 550, etc; any model w/6-way blade, needing some repair ok F Rowe Newberry 803-271-7768	<b>FRT END LDR</b> for JD 2320 compact utility tractor David Langston Pickens 864-556-9384	<b>WIDE FRT END</b> for JD 3020 Frank Brown Charleston 843-860-5845	<b>400 GAL SPRAYER</b> by Durand Wayland Tommy Coggins Laurens 864-682-0490	<b>2460 LONG TRACTOR</b> not running or no motor Ronnie Scoggins York 803-322-1745

WANT - MISCELLANEOUS

<b>SYRUP KETTLE</b> any size; wash pots, old lighting rod w/balls & weather vane; anvil, grit mill, coffee grinder, more Perry Masters Greenville 864-561-4792	<b>BLK SMITH ANVILS</b> wash pots, lrg post vice, farm/church/train bells, syrup kettle R Long Newberry 803-924-9039	<b>FIELDS OF LONG LEAF PINESTRAW</b> top prices paid, 15+ yrs exp David Shull Lexington 803-318-4263	<b>BLK SMITH ANVIL</b> any size; cast iron bell, any size; hand cranked corn sheller L Gunter Lexington 803-532-7394
<b>SUGARCANE MILL</b> preferably a horizontal mill, that can be powered by a tractor pto or electric motor Justin Welch Berkeley 843-412-8467	<b>LIQ SUPPLEMENT LICK TANK</b> could use just a top, w/in 75 mis Michael N Bailey Lancaster 803-288-3108	<b>50 LBS OF PECANS</b> '19 harvest, will consider seedling John Baker Hampton 843-589-4401	<b>MUFFLER</b> exhaust elbow, for '90 Belarus 400 David Whitener Spartanburg 864-266-7455
<b>FREE ROOF METAL</b> in the Midlands area David Wannamaker Calhoun 803-682-2117	<b>GREENHOUSE</b> metal frame & glass, any size up to 20'x30' Ned Polk York 803-230-6789	<b>2 REAR TRACTOR TIRES</b> used, 18-4-34, reasonably priced James Padgett Dorchester 843-560-6006	<b>PINE SAWTIMBER</b> pine pulpwood & hdwd, we cut sm or lrg tracts, 8A+ H Yonce Edgefield 803-275-2091

WANT - LIVESTOCK

EACH AD MUST LIST SPECIFIC ANIMALS.

**RABBITS**  
chickens, horses or goats, free or reasonably priced  
Jim Roach  
Richland  
803-542-8275

**ANY POULTRY & PIGEONS**  
all types  
Lynn Claxton  
Colleton  
843-909-4285

**HORSE**  
goats, chickens  
James Roach  
Richland  
803-542-8275



SC AGRITOURISM ASSOCIATION HOLDS 2-DAY CONFERENCE & TOUR

Interested in incorporating agritourism into your farm? Looking to expand or diversify your agritourism offerings? The South Carolina Agritourism Association will hold its annual conference Jan. 27-28, 2020, in Rock Hill, with plenty of opportunities for learning.

The conference includes a day of professional development sessions covering a wide array of topics including working with schools, zoning and working with local government, social media and dealing with negative feedback, and hosting events on your property.

It will also include a pub crawl of Rock Hill and other opportunities for networking, and a bus tour with stops at Tatanka Bison Ranch, Black's Peaches, Windy Hill Orchard and Cidery, and Penny Family Farm. The tour offers a chance to view area agritourism operations up-close and get your questions answered — farmer to farmer!

Tickets for the conference and farm tour are \$150 for the general public and \$100 for association members. Visit [scagritourism.org](http://scagritourism.org) for more information and a registration link. For additional information, contact Agritourism Marketing Specialist Jackie Moore at 803-734-2144 or [jmoore@scda.sc.gov](mailto:jmoore@scda.sc.gov).



# FARMERS LEARN THE SCIENCE OF SOIL HEALTH AT CLEMSON CONFERENCE

BY DENISE ATTAWAY, CLEMSON UNIVERSITY

CLEMSON – Healthy crops begin with healthy soil, and researchers with the Clemson University’s Sustainable Agriculture Research and Education (SARE) program are teaching farmers how they can benefit from keeping their soils fit.

The researchers teamed up with other agricultural professionals and farmers who have implemented soil health principles by using cover crops, no till and livestock integration to hold a conference to teach about soil health and tools to use to promote healthy soil.

“Soil is one of the most precious resources we have,” said Geoff Zehnder, Clemson SARE coordinator and co-organizer. “We depend on soil for our livelihoods and we must learn how to keep soil healthy so that it will continue to work for us.”

Co-organizers with Zehnder for the Building Soil Health: Principles, Practices and Productivity conference were Kelly Flynn with the Clemson Emerging Crops Program and Buz Kloot with the Arnold School of Public Health at the University of South Carolina.

Many people may take soil for granted and think of it as a renewable resource that will always be around. However, worldwide, topsoil has been lost in the past 150 years and is being lost at rates 10 to 40 times faster than it naturally can be replenished. Currently, 40 percent of soil used for agriculture throughout the world is classified as degraded or seriously degraded.

Gail Fuller is a third-generation farmer from Emporia, Kansas, who spoke about how cover crops can help replenish the soil.

“George Washington and Thomas Jefferson used cover crops to replenish the soil after a harvest,” Fuller said. “In the 1800s, cover crops were known as ‘green manure’ and were widely used to enrich the earth and put nutrients back in the soil. Why did we ever get away from using cover crops?”

Availability of synthetic fertilizers and a lack of understanding of the role of organic matter in soil health are two possible reasons why cover cropping practices have declined in modern agriculture. Also, successful implementation of cover cropping requires some knowledge and experience. But creative management can help overcome some of these issues, Fuller said.

“Consider the main crops being grown and then determine which cover crops can be grown so that they won’t interfere with harvest and will still have a head start when going into winter,” he said.

Fuller said he has learned planting cover crops is a way to increase profits and nutrient cycling, as well as capture solar energy.

Jason Carter, a Richland County farmer, started cover cropping about eight years ago and is seeing benefits.

no-till should be used in conjunction with other soil conservation practices.

“Soil must be able to function as a vital living ecosystem including nutrient cycling, as well as water infiltration and availability,” Lowder said. “Soil also must be physically stable and able to support plant growth. No-till cropland can do this if diverse cover crops are grown.”

Doug Newton, a farmer in Dillon and Marlboro counties, grows corn, soybeans, wheat and peanuts.

He practices no-till and uses cover crops for mulch.

“We had been using no-till on our crops, but didn’t see any real soil health benefits until we started growing cover crops,” Newton said. “Growing cover crops has allowed us to cut our input costs, without lowering our yields. If we can cut costs and stay in business and it’s good for us, we’ll continue to grow cover crops.”

Growing cover crops, along with crop rotations, also is helping control nematodes on Newton’s farm.



Attendees of Clemson University’s Building Healthy Soils conference visit the Clemson Student Organic Farm to learn how growing cover crops can improve soil health. Image courtesy Clemson Public Service and Agriculture.

“I had read about it and was interested in using cover crops as a nitrogen source,” Carter said. “Since we’ve started growing cover crops, we’ve cut back on fertilizer inputs, but are seeing the same yields. We’re saving money because our fertilizer costs are lower and yields are remaining the same.”

Leon Dueck, a dairy farm owner/operator from Olar, learned about growing cover crops after attending a field day at Carter’s farm.

“We, too, have lowered input costs by growing cover crops,” Dueck said. “We’re also seeing an increase in nutrients in our silage.”

Planting the correct cover crops can lead to better soil health by: reducing inputs, discouraging weed growth, promoting drought tolerance, retaining moisture, efficient nutrient cycling, increasing organic matter, increasing diversity and increasing soil carbon. In addition, keeping soil covered can help control erosion, protect soil aggregates, cool soil and provide habitats for soil organisms.

In addition to growing cover crops, utilizing no-till practices also can help alleviate soil disturbances and minimize soil losses. Nathan Lowder of the USDA Natural Resources Conservation Service said

While reducing tillage may help, Kris Nichols, soil microbiologist with a soil health consulting firm, said using a systems approach which begins with optimizing plant photosynthesis and soil organic matter is most beneficial.

“We need to bank more carbon in the soils,” Nichols said. “To do this, we need to keep a diversity of plants, including cover crops, growing in our soils. Diversifying crops is good for the climate and good for farmers’ wallets.”

In addition, carbon in the form of plant organic matter in the soil is essential food for soil microorganisms that perform many benefits in agriculture including making nutrients in the soil more available to plants.

David Kinder is a Royston, Georgia farmer who attended the conference. Kinder grows corn, soybeans and wheat. For diversity, he also raises chickens. Prior to growing row crops and raising chickens, Kinder was a dairy farmer.

“I’ve learned it’s important to learn about new practices and evolve with the times,” Kinder said. “You need to evolve, or get left behind.”

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# CLEMSON STUDENT STUDIES MAJOR DISEASE IN HOPES OF BRINGING RELIEF TO PEACH INDUSTRY

BY DENISE ATTAWAY, CLEMSON UNIVERSITY  
IMAGES COURTESY OF CLEMSON UNIVERSITY PUBLIC SERVICE AND AGRICULTURE

CLEMSON – Bacterial spot has threatened South Carolina peaches for as long as anyone can remember, but a Clemson University student is hoping his research can bring some relief to the peach industry.

Brodie Cox, a master’s student in plant and environmental sciences from Aiken, is focusing his studies on bacterial spot caused by *Xanthomonas arboricola* pv. *pruni*. (Xap).

“Bacterial spot is tough to control,” Cox said. “Once this disease makes its way to a field, it’s there for the life of the orchard.”

Bacterial spot is a major disease in peaches. Symptoms on green fruit include water-soaked lesions, while symptoms on maturing fruit vary from light speckles to deep crater lesions. Leaves also are affected and show yellowing starting at the tip end. Severe leaf infections can cause early defoliation resulting in reduced fruit size, sunburn and cracking.

Cox’s major professor, Clemson plant pathologist Guido Schnabel, said the fight against bacterial spot is a constant battle.

“Growers spray for this disease all of the time,” Schnabel said. “But we still cannot effectively manage bacterial spot.”



Symptoms of bacterial spot on peaches include fruit spots, leaf spots and twig cankers.

The study focuses on determining where the bacteria overwinter and how they adapt to chemical exposure. Cox collected tissue samples from four South Carolina peach farms three times during the growing season – in early spring, late spring and 2 weeks prior to harvest in mid/late summer – to capture a picture of the bacteria’s sensitivity to chemicals throughout the growing season. He then applied a petri dish-based assay to test common control compounds such as copper and oxytetracycline. Repeated applications typically are necessary for even minimal disease control.

“We compared common control methods to try and get a better idea of what can be done to better control bacterial spot,” Cox said.

Hehe Wang, a Clemson plant bacteriologist, said Xap is difficult to control because most commercial peaches are susceptible and the limited number of disease-tolerant/resistant cultivars also could develop symptoms during high-infection periods.

In addition, there are no cultural controls available and chemical control options are limited.

“The current disease management mainly relies on weekly spray of copper and antibiotics, such as oxytetracycline, throughout the growing season,” Wang said. “But the disease incidence is still high when weather conditions are conducive. The disease pressure in the past few years has been high and it has raised concern about the development of chemical resistance in the Xap population.”

The disease is more apt to occur during warm, wet spring weather. Information from the National Oceanic and Atmospheric Administration North Carolina Institute for Climate Studies shows the average temperature for South Carolina has increased about 0.5 degrees since the early 20th century. Historically unprecedented warming, including extreme heat events, is projected by the end of the 21st century. Figures from the NOAA National Centers for Environmental Information show South Carolina spring temperatures and rainfall amounts have been above average for the past several years.

Peaches are a driving force in the South Carolina economy and if temperatures and precipitation

continue to increase during spring months when peaches are growing, the state’s agricultural economy could be hit hard. According to the United States Department of Agriculture, South Carolina is second to California in peach



A Clemson master’s student is studying bacterial spot in an effort to help South Carolina peach growers in their fight against this devastating disease.

production. In 2018, South Carolina growers produced 65,800 tons of peaches. California produced 479,000 tons of peaches and Georgia came in third with 26,000 tons of peaches produced.

Cox earned his bachelor’s degree in plant and environmental sciences from Clemson in 2018. He plans to graduate with his master’s degree in 2020. While he may not have a definite fix for bacterial spot of peach by then, Cox said he hopes to gain a better understanding of the disease so that he can help South Carolina growers produce better peaches.

“I grew up close to major peach growers and I’ve always had a heart for peaches,” Cox said. “Studying at Clemson has helped me understand Cooperative Extension research and how vital that research is for the agricultural industry. While in undergraduate school, we were challenged to think critically and learn how to apply our knowledge to the world around us. My work experience in the lab and in the field while at Clemson has helped me understand how to move discoveries from the lab to the field in order to make an impact on the industry. Working alongside Dr. Schnabel with local growers has helped me communicate and work with growers in the industry. I want to continue to do what I can to help the South Carolina agricultural industry.”



## FUNDS AVAILABLE TO SUPPORT ORGANIC CERTIFICATION

The deadline to apply for National Organic Certification Cost Share Program funds from the South Carolina Department of Agriculture has been extended through Dec. 31, 2019.

The purpose of this program is to defray the costs of receiving and maintaining organic certification. SCDA is authorized to provide reimbursements to certified organic operators for up to 75% of the operation’s total allowable

certification costs, up to a maximum of \$750 per certification scope: crops, livestock, wild crops, and handling (i.e., processing).

South Carolina agribusinesses with organic certification costs that were incurred between Oct. 1, 2018, and Sept. 30, 2019, and that have not yet been submitted for reimbursement to either SCDA or USDA, may be eligible. To apply, visit [agriculture.sc.gov/grants](http://agriculture.sc.gov/grants).